



MOTOROLA

**DJT7768A
DJT7768B**

IMPORTANT NOTICE

Notching Tool/Notching the RF Board

Before using the notching tool, read all instructions and cautionary markings provided in this notice, in the manufacturer's manuals, and on the products themselves.

Notching Tool Kits DJT7768A and DJT7768B include a Motorola® notching tool fixture with a DREMEL® tool attached. The kits also include a DREMEL 6Vdc rechargeable nickel-cadmium battery, a DREMEL wall-mount transformer for recharging the battery from a 110Vac power source, and operating instructions from Motorola and DREMEL.

The DJT7768B Notching Tool Kit also includes:

- a POWERLINE® Travel Voltage Converter Kit that converts 230Vac to 110Vac.
- adapter plugs and operating instructions.

IMPORTANT SAFETY INSTRUCTIONS

- Wear safety glasses when operating this notching tool.
- To prevent electrostatic discharge, you must wear an antistatic wrist band while performing any rework.
- Do not remove the DREMEL tool from the fixture; the calibration may be lost.

OPERATING INSTRUCTIONS

Refer to Motorola Service Repair Notice SRN1243 for further information regarding the need for this tool.

Preliminary Information

The notching tool is preassembled and requires no further assembly. As a precautionary measure, check to make sure that the DREMEL tool collet is tight (see Figure 1). The DREMEL battery must be charged before its first use. Refer to the battery charging instructions supplied by DREMEL.

Two circuit board cuts are required, one cut to produce a slot configuration (see Figure 1), and another cut to remove a board protrusion (see Figure 2).

To cut the slot:

1. Position the RF circuit board in the tool fixture as shown in Figure 1.

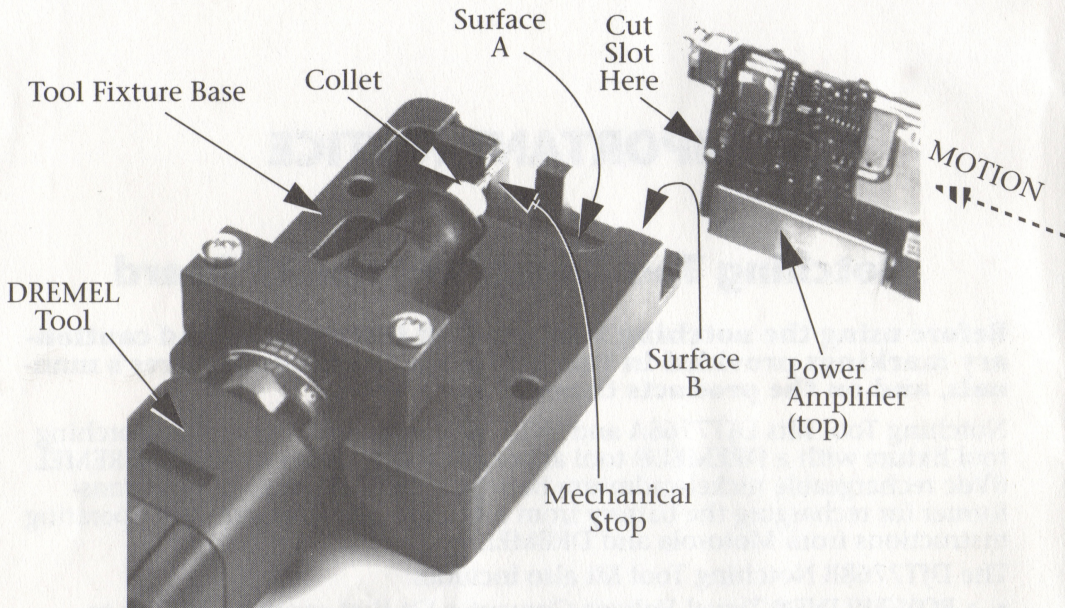


Figure 1. Cutting the Slot

2. Move the circuit board in the direction of the motion arrow until the bottom edge of the board rests on surface A and the top of the power amplifier presses against surface B.
3. Turn on the DREMEL tool to the HI position. Hold the board firmly, maintaining pressure against surfaces A and B, while sliding the board into the tool's cutting bit. Continue to slide the board until it hits the mechanical stop.
4. Slide the board back away from the cutting bit and turn off the DREMEL tool. This cut will rework the board's mounting hole into a slot configuration.

To remove the circuit board's small protrusion:

1. Turn on the DREMEL tool to the HI position.
2. Set the RF circuit board in the fixture, with the corner of the board in the fixture slot as shown in Figure 2.



CAUTION

Hold the circuit board with two hands during the cutting operation. A loosely held board will "jump" when placed in contact with the cutting tool bit.

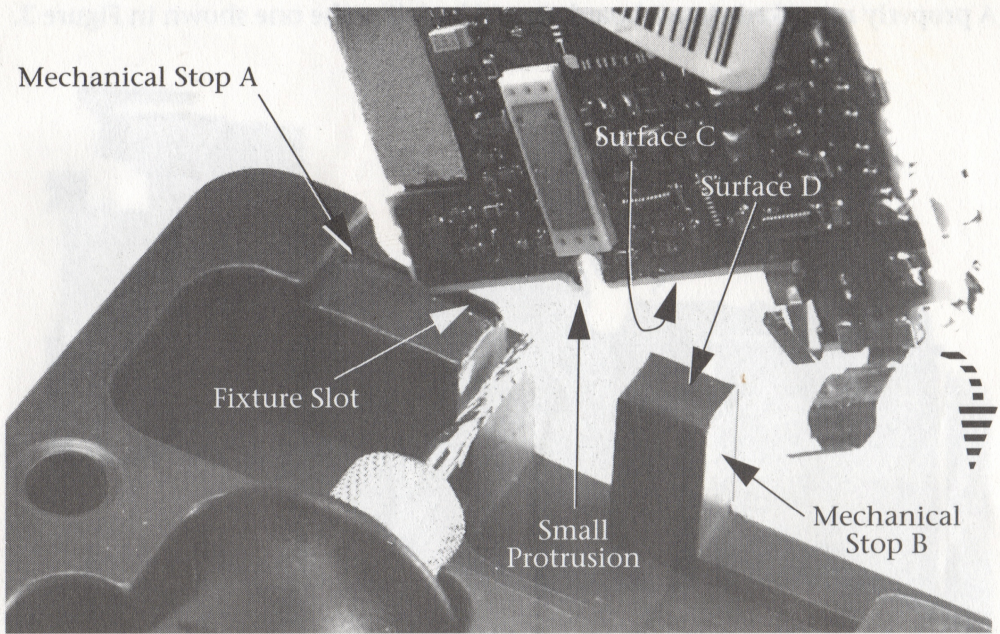


Figure 2. Removing the Small Protrusion

3. Slowly rotate the board in a clockwise direction down onto the fixture base until surface C rests on surface D.
4. Slide the board along the slot so that the protrusion makes contact with the tool's cutting bit. Continue to slide the board until the board hits the mechanical stops.
5. Lift the board away from the tool fixture and turn off the DREMEL tool. Clean all debris from the board using a soft brush, but **do not** use a solvent.

A properly reworked circuit board should look like the one shown in Figure 3.

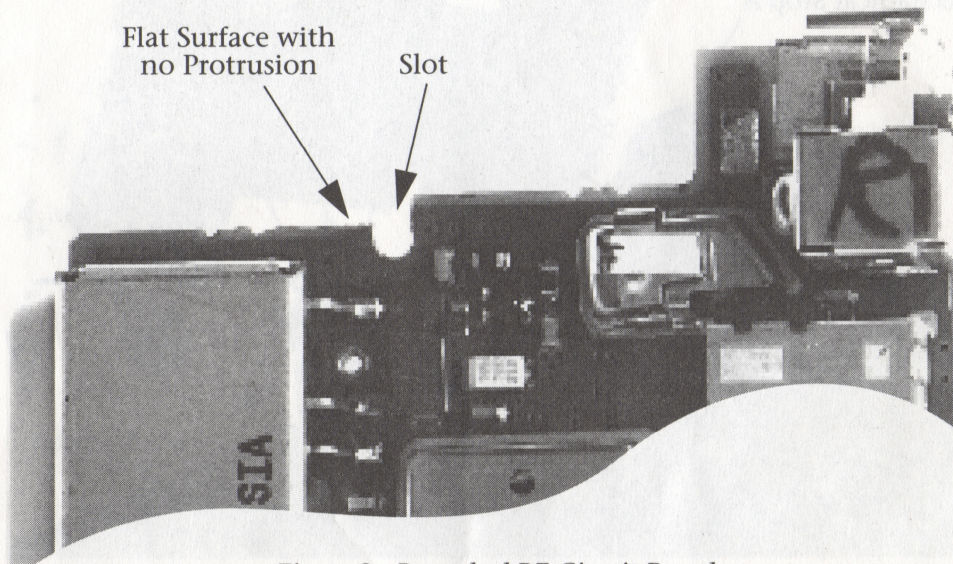


Figure 3. Reworked RF Circuit Board

NOTE: An adjustment set screw to raise or lower the cutting tool is provided on the base of the fixture. Turn the set screw clockwise to raise the tool's cutting bit or counterclockwise to lower the cutting bit.

The cutting bit is a 5/64-inch diameter, 4-flute, carbide end mill with 1/8-inch shank and 1 1/2-inch overall length (cutting flute length must be at least 1/4-inch long). Replacement cutting bits (part number 8848A73) can be purchased from McMaster Carr Supply Co., PO Box 4355, Chicago IL 60680 Tel. (630) 834-9600.

If you have any questions, please contact Motorola Product Services at 1-800-927-2744.

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