

[TABLE]

Table mounted routers are used primarily to create decorative surfaces (shapes) on material. The Table mounted router is a multi-purpose tool to: a) Decorative cuts on the EDGE & ENDS of workpieces; b) Form a variety of joints - rabbit; dado; tongue & groove; c) many dovetail or box joints. This is also very useful in formation of profile duplicates of contour templates using a profile bit. Router bits have a variety of shapes & sizes - over a 1-inch in diameter. Bits & collets allow 3/8-inch & 1/2-inch bit shafts. A chart of bits is located outside the Tool Crib. The Fences & built in Guides are particularly important for optional use of the Table mounted router.

|  | Bullet Point                        | Explain & Demonstrate   |
|--|-------------------------------------|---|
| <b>COMPONENTS</b><br>Naming components now will ensure greater understanding of subsequent | <b>SAFETY SWITCH</b><br>(Fuse Box)  | <b>Up = Power On.</b><br><b>DOWN = Power OFF.</b>   |
|  | <b>POWER CONTROL PANEL</b>          | <i>Single power switch.</i><br><b>Pull RED switch UP = Power On.</b><br><b>Push RED switch DOWN = Power OFF.</b>  |
|  | <b>BITS</b>                         | Bit rotation = <b>Right to LEFT. (CW - Table Router).</b><br>Wheel [crank] raises & lowers Router. Lock Handle locks router height in place.<br>Wrenches to change bit. Drawer<br>~1/8-inch of empty space between bottom of router shaft & end of bit shaft.<br>Close Dust Collection Gate when changing bits. |
|  | <b>THROAT PLATE</b>                 | Select <b>red plate</b> with center hole closest to bit size. Wrench in drawer.   |
|  | <b>COLLETT</b><br><b>Collet NUT</b> | Two sizes: 3/8-inch & 1/2-inch collet shafts.<br>Wrenches to tighten the collet to the bit shaft - in the drawer.<br>Use compressed air to blow out dust / debris in collect.   |
|  | <b>TABLE PLATFORM</b>               | ' T ' Rail guides are embedded in Table & Fence.<br>Tighten clamps, feather boards. Lock Knobs.   |
|  | <b>FENCE</b>                        | LEFT rear Fence. Outfeed Fence. Jointing Adjustment [up to 1/4-inch] Knobs.<br>Right rear Fence. Infeed Clamping Knobs.<br>Fully assembled Clear-cut Stock Guides - Infeed & Outfeed fence. Keeps workpiece against Fence & Table.<br>Use feather boards or clamps whenever possible.                           |
|  | <b>Sub FENCE</b>                    | Loosen the two (2) Infeed Clamping Knobs and two (2) Jointing Adjustment Knob.<br>Slide Sub-fences to clear the diameter of the Router Bit + 1/4-inch.<br>Retighten all four (4) knobs.   |
|  | <b>DUST PORT</b>                    | Gate is always <b>OPEN.</b>   |
|  | <b>Accessories in Drawer</b>        | Adjustable Miter. Plus / minus 60-degree angles.<br>Clamps.<br>Push Sticks.<br>Feather boards. Fit to ' T ' Slot. Lock Knob.<br>Wrenches. Collet to Bit.<br>Throat plates. Various sizes for various Bits. Wrench tightens Plate to Table.  |

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| <b>Safety</b>         |                                      | <p><b>Turn Power OFF</b> at the Safety Switch when changing bits.</p> <p>Ensure <u>all</u> Lock Knobs are secure.</p> <p>Do not start router if the bit is in contact with workpiece.</p> <p>Never trap workpiece between the Bit &amp; Fence.</p> <p>Never reach under the table to make adjustments while router is running.</p> <p>Keep fingers 3-inches from the bit.</p>   |
| <b>Teaching Steps</b> | <b>Teaching Steps</b>                | <p>Set up Table Router.</p> <p>Control workpiece against Fence and Table. Clear cut Stock Guides.</p> <p>Chamfer End-Grain first - Right-to-Left on Table.</p> <p>Chamfer 'regular' &amp; Irregular' curved workpiece using the Starting Pin.</p> <p>Keep router bit turning into the workpiece. Do not back-out of a cut.</p>  |
|                       | <b>Plan. Prepare. Measure. Mark.</b> | <p>Plan <u>all</u> cuts - single &amp; multiple. Test with scrap workpieces.</p> <p>Set the Bit Depth of Cut using: 'Rule of thirds' - [1/3 of bit per cut]. Plus one..</p>   |
|                       | <b>Participants</b>                  | <p>Turn Power <b>On</b>.</p> <p>Make a pass across the end grain from Right-to-Left, then across the edge grain. (Compare the sound and feel of these two cuts.)</p> <p>Turn router <b>OFF</b>. Wait for it to stop.</p> <p>Withdraw the Fence.</p>   |
|                       | <b>REVIEW LESSON HIGHLIGHTS</b>      | <p><b>Ask-for-Help</b> if you have not used or are unfamiliar with the Table Router.</p> <p>Securely tighten, but do not overtighten <u>all</u> Lock Knobs. Please.</p> <p>Use a scrap workpiece to test depth of cuts.</p> <p>Use miter gauge to cross cut and a sacrificial board with end cuts.</p> <p>Adjust stance to follow cut through workpiece.</p> <p>Concentrate on the tasks.</p> <p>Adjust width of bit to 'sub-fence' opening.</p> <p>Glue is the enemy of the router bit, table and fence.</p> |
|                       | <b>RESTRICTIONS</b>                  | <p>Do not use router on <b>MDF</b> or plywood products.</p> <p>Ensure all excess glue is removed from workpiece.</p> <p>Close Dust Collection gate when changing bits.</p>  |