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Operating Manual

CTR960 Countertop Router

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INSTALLATION INSTRUCTIONS

- § Inspect the skid and crate for any shipping damage.
- § Remove crating materials. Inspect entire unit carefully for any shipping damage.

NOTIFY CARRIER and EDGETECH OF ANY DAMAGE IMMEDIATELY!

Remove Machine From Skid

- § Move machine to general location while on skid.
- § Remove the four lag bolts holding the machine to skid.
- § Using a forklift, approach the machine from the front or rear with the forks underneath the horizontal frame supports – if router motor is positioned toward one end of the machine, shift forks to that end for proper balance when lifting
- § Lift machine slightly from skid and slide skid from under machine
- § Lower machine into place on floor
- § Remove any remaining packing / strapping from the machine

Installation of Machine and Connection To Air and Power Supply

- § Position machine in desired location and level. Anchor to floor if desired.
- § Be sure all packing has been removed from the machine and connect air line to machine. Air must be free from moisture.
- § Have a certified electrician connect 120VAC, 20 amp as follows:
 - o Hot Top of 1TB-H
 - o Neutral Top of 1TB-N
 - o Ground Top of 1TB-G
- o Refer to Electrical Schematic in Section 9 of the manual

WARNING - Be sure main power is off and locked out before attempting any electrical connections or service.

Check local codes for proper fused disconnect boxes and wiring requirements.

SECTION 4
MAINTENANCE
COUNTERTOP ROUTER
CTR960

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Section 1 MAINTENANCE & LUBRICATION

- Keep machine clean and free of debris on a daily basis.
- Completely vacuum or blow off machine if excessive sawdust or debris builds up
- Keep V-rails clean and lubricated
- Replace wood table supports as needed for proper and level support
- Be sure all boards are the same height
- Secure boards with thumbscrews
- Cover machine if not being used for periods of time (especially if near other dust producing machinery).
- Regularly check and empty water from the filter/regulator located below air gauge.
- Refer to the router motor manufacturer's recommendations included with this manual

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Section 2 ROUTER MOTOR REPLACEMENT

BE SURE MAIN POWER IS OFF AND LOCKED OUT.

Section 2-1 To Remove Router Motor

1. Disconnect electrical cord at twist lock connector

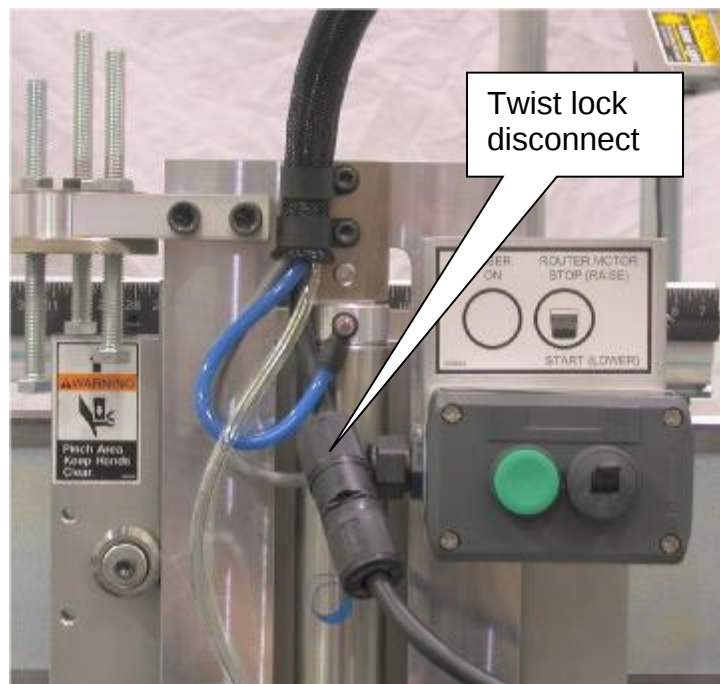


Figure 1

2. Loosen the 3/8" socket head cap screws in the router mount plates and the height adjust clamp plate
3. Lift the router out of the router mounting plates and height adjust clamp

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Section 2-2 To Install Replacement Router Motor

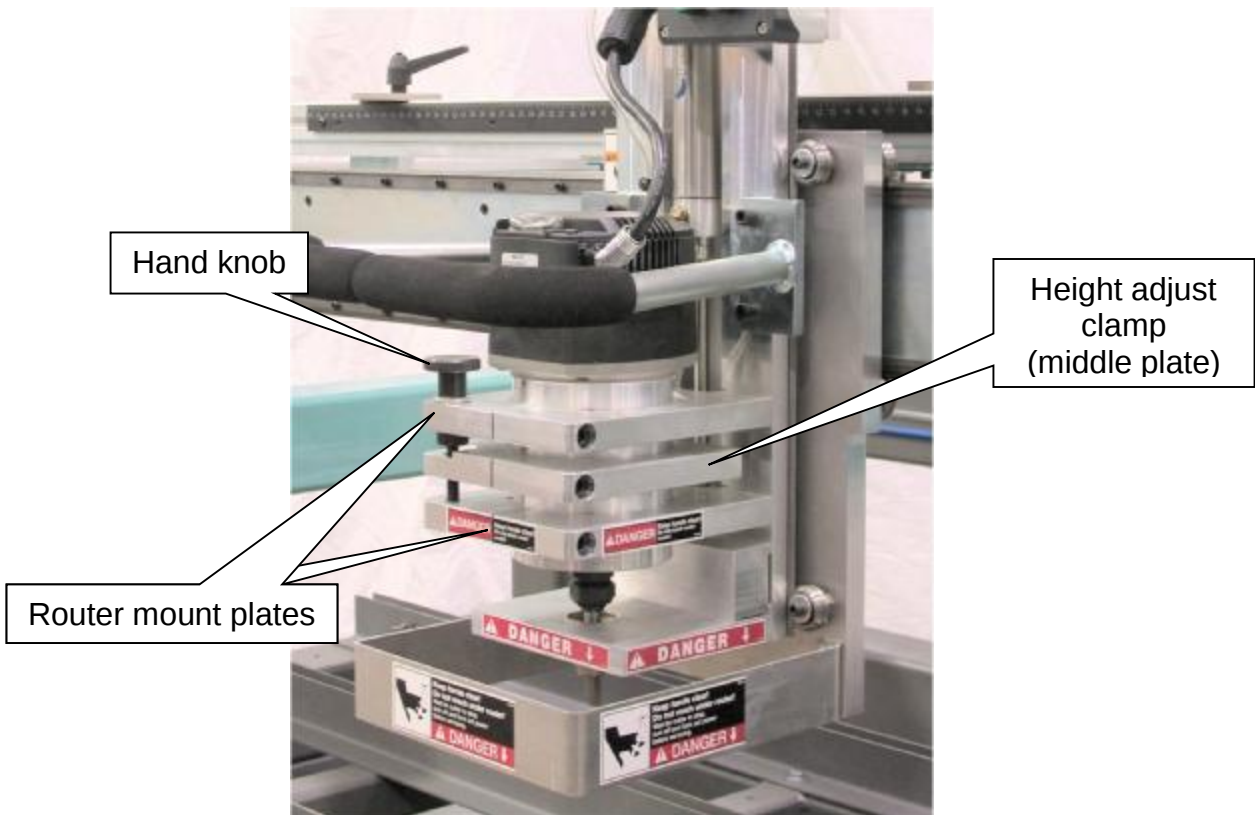


Figure 2

1. Install router bit into motor, bit should extend 2-5/8" below the face of the collet
2. Place router through router mount plates and height adjust clamp
3. Turn hand knob counterclockwise to allow the height adjust clamp (middle plate) to drop down touching the bottom router mount plate.
4. Position the router so the shoulder of the router is 1/4" above the top router mount plate
5. Tighten the 3/8" socket head cap screw in the height adjust clamp (middle plate).
6. Turn the hand knob to raise the router, retracting the bit through the guide bushing.

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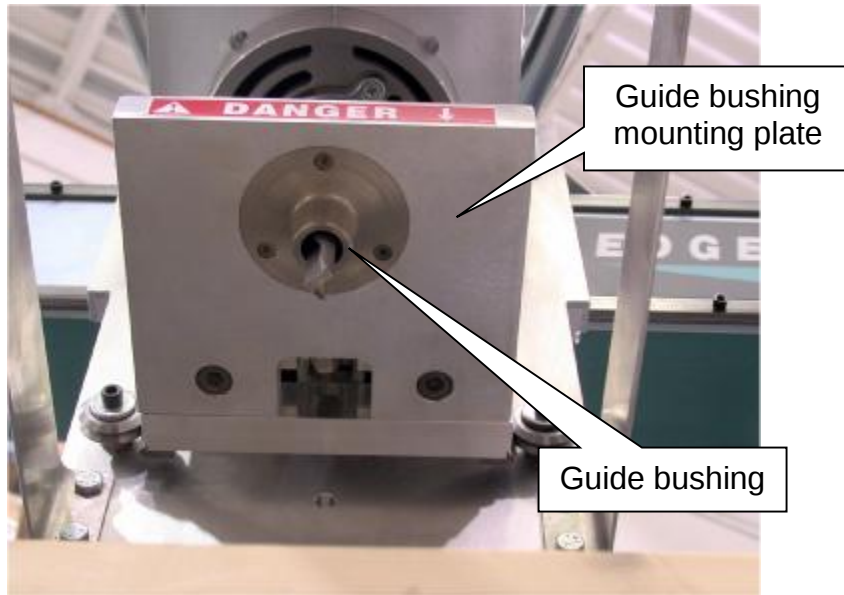


Figure 3

7. The initial setting will be with the router bit extending through the guide bushing approximately 1/8" more than the thickness of the material being routed.
8. Tighten the clamp screws in the router mount plates.
9. Reconnect the twist lock connector

Section 3 FLOW CONTROLS ADJUST

Airflow control valves control the speed at which the router is raised and lowered. The flow control valve for adjusting the raising speed is located on the air solenoid valve inside the electrical enclosure. The flow control valve for adjusting the lowering speed is located in the top port of the raise/lower air cylinder.

Adjusting the raise flow control valve will require opening the electrical enclosure with power remaining connected to the machine. Use caution not to contact any electrical components when reaching into the enclosure to adjust the flow control valve. Close and secure the electrical enclosure after adjustment is completed.

1. Verify that compressed air is connected to the machine.
2. Make certain the area under the router is clear.
3. Turn on and lower the router by moving the switch located above the router mount to the down position.
4. Move the switch to the up position and observe if the router motor is stopped when it reaches the up position.
5. Adjust the flow control valve that raises the motor up so the motor rotation is stopped when the router reaches its up position. Loosen the knurled lock nut on the needle of the flow control valve; turn the needle until the desired speed is obtained. Turning the needle clockwise (in) will slow the travel speed. Tighten the knurled lock nut.

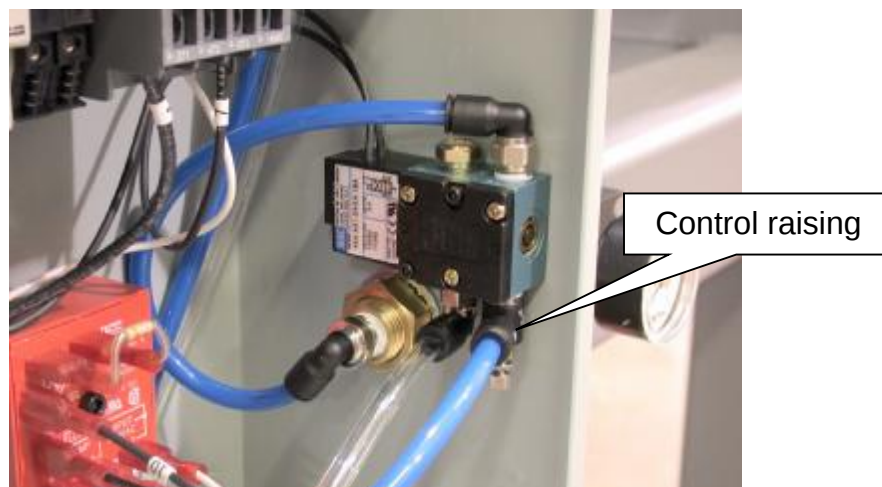


Figure 4

6. Clamp a sample work piece into the machine.

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7. Start and lower the router by moving the switch located above the router mount to the down position.
8. Adjust the lowering speed control valve so the router cuts through the work piece without putting excessive pressure on the router bit. The router motor speed should remain constant as the router bit cuts through the work piece.

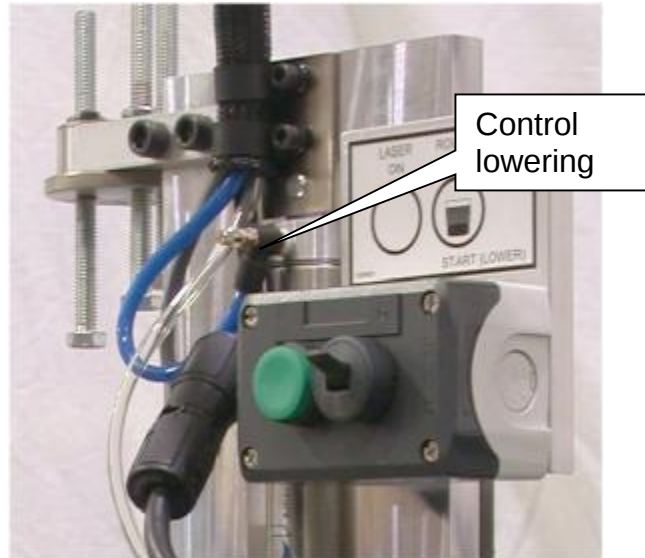


Figure 5

9. Loosen the knurled lock nut on the needle of the flow control valve; turn the needle until the desired speed is obtained. Turning the needle clockwise (in) will slow the travel speed. Tighten the knurled lock nut.

SAFETY GUIDES

for the operation of CARBIDE TIPPED ROUTER BITS

Read Completely Before Attempting To Operate Carbide Tipped Router Bits

This leaflet of safety and operating instructions is not intended to be and is not totally comprehensive; that is, it does not, and cannot, cover every possible safety problem which may arise in using specialized and standard tooling on varying machines and applications. This leaflet is rather intended to generally describe many of the basic safety and operating procedures which should be followed, and to describe the types of safety considerations which should be considered in operating cutting tools.

None of the statements or information presented in this leaflet should be interpreted to imply any warranty or safety protection.

The drawings do not depict any particular design, type, or size of tools, equipment or machines. The drawings are illustrative only and are not to be construed to establish any exact mode, method or procedure.

I Federal and State laws and regulations having jurisdiction covering the safety requirements of cutting tools at the point of usage take precedence over the statements and information presented in this leaflet. Users of cutting tools must, of course, adhere to all such regulations. As an aid to cutting tool users a number of such regulations are listed below. The list does not include all regulations that may apply:

1. The Federal Register dated June 27, 1974, Dept. of Labor, Office of Safety and Health Administration (The OSHA Act)
2. American National Standards Institute, 01.1-1975 (Safety Regulations for Woodworking Machinery)
3. American National Standards Institute, 02.1-1969 (Safety Requirements for Sawmills)
4. American National Standards Institute, P1.1-1969 (Safety Requirements for Pulp, Paper and Paper-board Mills)
5. Other ANSI, State and/or Federal Codes and Regulations which may apply in your operation

SAFETY RULES WHICH APPLY TO THE OPERATION OF ALL CARBIDE TIPPED CUTTING TOOLS

1. Always inspect the cutting tool completely before mounting. Never attempt to operate a tool which has chipped or bent teeth or cutting edges. Teeth that are not sharp. You must be familiar with normal wear conditions for the type of tooling to be used. The tool must be completely clean to allow proper visual inspection.

2. Do not attempt to operate cutting tools or machinery with which you are not familiar or have not received operational training—get assistance from your supervisor, his designated representative or a trainer who is familiar and properly trained and experienced on the machine to insure your safety. Become completely familiar with all of the machinery manufacturer's written instructions, guides and manuals before operating machine. You must use and be familiar with all controls, safety devices and emergency stop mechanisms to operate a machine safely.

3. Never operate a cutting tool that is not properly aligned to the direction of feed. Do not allow sideward, twisting or other than forward pressure on the cutting tool in feeding material into a cut.

4. Make sure the tool is mounted to rotate in the proper direction before cutting any material. The tool must rotate against, rather than with, the direction of feed on all hand feed machines. Do not climb on hand feed machines.

5. Do not cut materials of a type, hardness or density other than that which the cutting tool was designed to cut. Never attempt to cut materials with a tool unless you have personally checked with your supervisor to make sure the cutting tool was designed for the specific type of material you wish to cut, and for the depth of cut desired. This is particularly important when attempting to cut "stacked" material, i.e., cutting more than one piece at a time.

6. Never force-feed materials into a cutting tool such that it causes the tool or machine motor to slow down below operating speeds. A safe and proper cutting operation will not require much force in feeding material. If material begins to "ride up" on the cutting tool, or requires undue pressure to feed the material into the tool, or if undue vibration is experienced, do not continue the cut—turn off all power and correct the condition.

7. Keep body and clothing well clear of all cutting tools and other moving parts while the machine is in operation. Use work holding fixtures and mechanical feed devices in all possible cases. When cutting material of such size, shape or type that it necessitates close approximation to

1. **Hardness** is the resistance of a material to being cut or the strength of a material to resist tearing or breaking.
2. **Density** is the compactness of a material compared to its volume

the cutter and mechanical feed mechanisms cannot be used, use a wood "push stick" to feed the material so that no part of your body or clothing comes close to the cutting tool.

8. Never attempt to clean a cutting tool or clear pieces of material from the cutting area while machine power is "on" or when cutting tools, material or any part of the machine is moving. Allow cutter rotation to stop by itself, or by use of a brake if supplied on the machine. Never attempt to stop or slow a rotating cutting tool by applying a hand-held or any other object to the cutter, arbor, spindle or drive as a brake.

9. Do not place your body in the rotational path of a cutting tool unless absolutely necessary, and then only if there is a complete and adequate barrier between you and the cutting tool. Remember that carbide tips are very hard and, therefore, brittle. The tips can break away under incorrect side thrust or twisting forces, or if foreign material is allowed to contact the tips. An operator can reduce the danger of being hurt by a "kickback" of the material if he always stands beside the material he is feeding into the machine rather than in back of it.

10. Never leave machines unattended while cutting tools are still rotating or any part of the machine or material is moving.

11. Never operate a machine without using all of the hoods, guards, hold-downs and safety devices for the machine being operated.

12. Machines must be maintained to the manufacturer's standards and current safety standards.

13. Always wear safety glasses or face shield to completely protect your eyes when operating cutting tools.

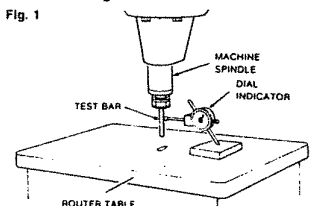
CARBIDE TIPPED & HIGH SPEED STEEL ROUTER BIT & ROUTER TOOL MOUNTING INSTRUCTIONS

1. **TURN OFF AND LOCK OUT ALL MACHINE POWER.** Remove the collet chuck and collet (see the machine manufacturer's instructions) and clean them. Also clean the spindle and tool. Remove all nicks and burrs by very lightly honing (do not use coarse files or coarse abrasives). When removing parts and tools from a machine, handle them carefully. Never use hard metal hammers to loosen machine parts or tools, and never allow the teeth of cutting tools to touch steel even when they are dull, for this will cause the cutting edges to be damaged.

2. **WITH ALL MACHINE POWER OFF AND LOCKED OUT,** push the machine spindle up and down and to and from by hand pressure (without rotating the spindle). There should be no feeling of movement. Next, rotate the spindle by hand. The spindle should turn freely without sticking or rubbing if the bearings are in proper condition.

3. **WITH ALL MACHINE POWER OFF AND LOCKED OUT,** check the condition of the collet chuck by mounting the collet and collet chuck in the spindle with a ground test bar positioned full depth into the chuck. A 3 inch length of drill rod will serve as a test bar. Set up a dial indicator as shown in Fig. 1, and check the runout

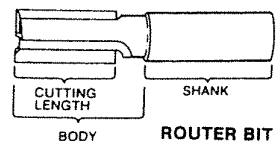
Fig. 1



of the test bar, turning the machine spindle by hand. Runout of the test bar in excess of machinery manufacturer's recommendation could indicate a worn or damaged collet, or worn spindle bearings or spindle assembly. Make all corrections necessary before mounting the cutting tool.

4. **WITH ALL MACHINE POWER OFF AND LOCKED OUT,** remove the test bar and mount the router bit or router tool in the machine after inspecting the tool. Do not mount any tool that is dull or damaged and check shank of bit to be sure it fits securely into collet. Be sure the router bit or tool is positioned completely into the collet to the full depth of the shank and clamped only on the smooth, straight surface of the shank (see Fig. 2) Never

Fig. 2



clamp only a portion of the shank to "extend" the cutting depth, or clamp on the body below the shank. If there

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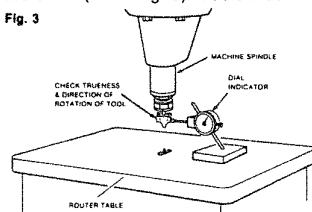
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is a radius between the tool shank and body, be sure to clamp above the radius. Check the tool with the dial indicator (as in Fig. 3). Tools that

Fig. 3



have excessive runout (more than $\pm .002$) or that wobble, are unsafe at the high spindle rotating speeds of router machines, and must be corrected or replaced.

5. SPECIAL NOTE: Whenever a router bit is removed from a machine, inspect the shank for collet markings (brown or black spots, or lines on the shank). If markings are present, the collet may be worn and should be checked. Worn collets cause undue vibration in the router bit, which can work harden the tool causing it to break.

CARBIDE TIPPED & HIGH SPEED STEEL ROUTER BIT & ROUTER TOOL START-UP PROCEDURE

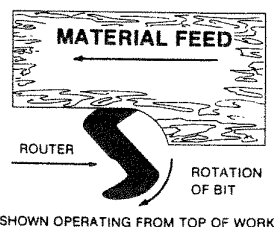
1. TURN OFF AND LOCK OUT ALL MACHINE POWER. Never assume previously set machine or tool conditions to be correct. Be sure that the tool is correctly mounted, properly positioned in the collet chuck and clamped securely, turns freely (no foreign objects in tool rotation path) and is properly positioned for the cutting operation required. Check to see that the cutting tool is not dull.

2. Insure that you are not attempting to operate tools that do not conform to the machine manufacturer's machine load specifications in either size or weight, or that do not mount according to the machine design limitations. Operate router bits and router tools only on the type of materials, cutting loads and operation applications for which the tools and machine were designed.

3. WITH ALL MACHINE POWER OFF AND LOCKED OUT, position the cutting tool, material guide rails and material hold-downs so that the material to be cut is fully supported.

This will insure there will be minimal material vibration. Next, follow the machine manufacturer's instructions to mount all guards over the tools such that the guards are close to, but properly clear, the material being cut. Mount and activate all safety devices such as anti-kickback mechanisms, dust hoods, guards and safety switches. Make sure all personnel and all loose or foreign objects are clear of the machine and the cutting tool. Insure that the direction of feed of the material to the cutting tool is proper. (see Fig. 4)

Fig. 4



4. TURN ON MACHINE POWER. Start the tool rotating slowly before feeding material. This is done by "jogging" (that is, pressing the start button and immediately after that pressing the stop button). At a safe distance, observe the operating condition of the tools (by sight and sound) as they rotate slowly. Next, **TURN OFF AND LOCK OUT ALL MACHINE POWER,** wait until the cutting tool stops rotating (do not attempt to stop the tool rotation yourself unless a brake is specifically provided for that purpose on the machine), and make any necessary corrections. Any router tool that is dull or appears to "wobble" when rotating is dangerous and the situation must be corrected before attempting to cut any material (see Router Tool Mounting Instructions). Adjust the machine feed guide and machine feed controls (if automatic) according to machine manufacturer's instructions. Go through all steps noted in paragraph 3, just above, before you **TURN THE MACHINE POWER ON.** Press the start button and allow the machine to operate at full idle speed for at least one minute before feeding material. Before beginning production cutting, make a short, shallow cut on a test piece of the

material to be cut to observe cutting action of the tool before proceeding to full cut depth operation. Always start into the cut slowly and use a smooth, steady feed to allow the tool to cut freely. It will not take much effort to move material properly through the cut if the routing operation is set up correctly and safely.

CARBIDE TIPPED & HIGH SPEED STEEL ROUTER BIT & ROUTER TOOL SPECIAL OPERATING PRECAUTIONS READ CAREFULLY

1. Never run router tools in machines other than router machines. Do not operate router tools in drill presses, portable drills, etc.

2. Operate only router tools and router bits that have the shortest possible cutting edge length in order to maintain the cutting load as close as possible to the collet chuck support (never use a longer cutting edge length to "reach" the material). Material should just clear the collet chuck as it moves through the cut. Do not operate router tools with only part of the tool shank clamped in the collet to make the tool "reach" deep cuts. The entire shank must be clamped in the collet. Do not clamp the tool on any radius between the shank and body.

3. Router tools are often limited in capacity of the chip pocket (area in front of the cutting edge which carries away the chip) because of the small diameter of the tool. Over-feeding (forcing material into the cut) can cause compression of chips that can result in bending or breaking of the router bit or tool. Small diameter router bits are limited in the amount of clearance that can be designed and manufactured into the tool due to the need to maximize strength in the tool body. Fast feeding of router bits can result in overloading the clearance space between the material cut and the steel behind the cutting edge. When such an operating condition occurs, dangerous, high overload pressures rapidly develop that can cause bending and breakage of the tool. Don't force-feed material into these tools.

4. If the cutting tool and the material tend to push away from one another, or if they bounce or vibrate against each other, stop the machine

immediately. Do not use force to continue the cut. Do not operate the machine until the machine or tool condition is corrected.

5. Never feed material into a router tool when the material is not supported by the machine table and table guide rails, or that requires the hands or clothing to be dangerously close to the rotating parts of the machine. Keep body and clothing well clear of the cutting tool while in operation.

6. Always wear safety glasses to completely protect eyes when operating routing tools.

SPECIAL NOTES ON PORTABLE ROUTERS

A. Follow the machine manufacturer's recommendations on proper inspection and operation of the portable router.

B. Insure that the unit is unplugged at all times during inspection.

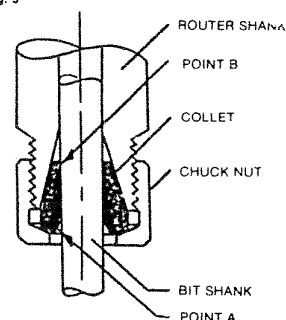
C. Make sure that the router motor is clamped securely in the base at all times.

D. Insure that the router bit shank is always inserted a minimum of $\frac{1}{8}$ " up into the collet.

E. Total router bit runout should not exceed $\pm .004$.

F. Inspect the collet frequently. The collet should be replaced when use causes wear at point A or at point B (see Fig. 5). Continued use of such a worn collet can cause bit vibration and set up stresses that result in bit breakage.

Fig. 5



SECTION 6
OPERATING INSTRUCTIONS
AND SAFE WORK PRACTICES
COUNTERTOP ROUTER

CTR960

CTR960 COUNTERTOP ROUTER

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Section 1 OPERATING INSTRUCTIONS

Never reach into machine while cutters are running.
Never reach under router, even when router is turned off, to prevent cuts
from router bit.

OBSERVE SAFE WORK PRACTICES!

- Do not operate or service this machine before reading and understanding the operating procedures and safety instructions in this manual and reviewing the safety labels on the machine.
- Read and understand the product literature, product instructions and safety guides included in this manual.
- Various components of this machine have high voltage connections. Be sure power is disconnected and locked out before attempting any service or maintenance.
- Never reach into machine while machine is operating.
- Proper eye protection must be worn at all times.
- Never operate this machine unless all guards and safety devices are in place and working properly.
- Be sure the work area around the machine is kept open and free of obstacles.

CTR960 COUNTERTOP ROUTER

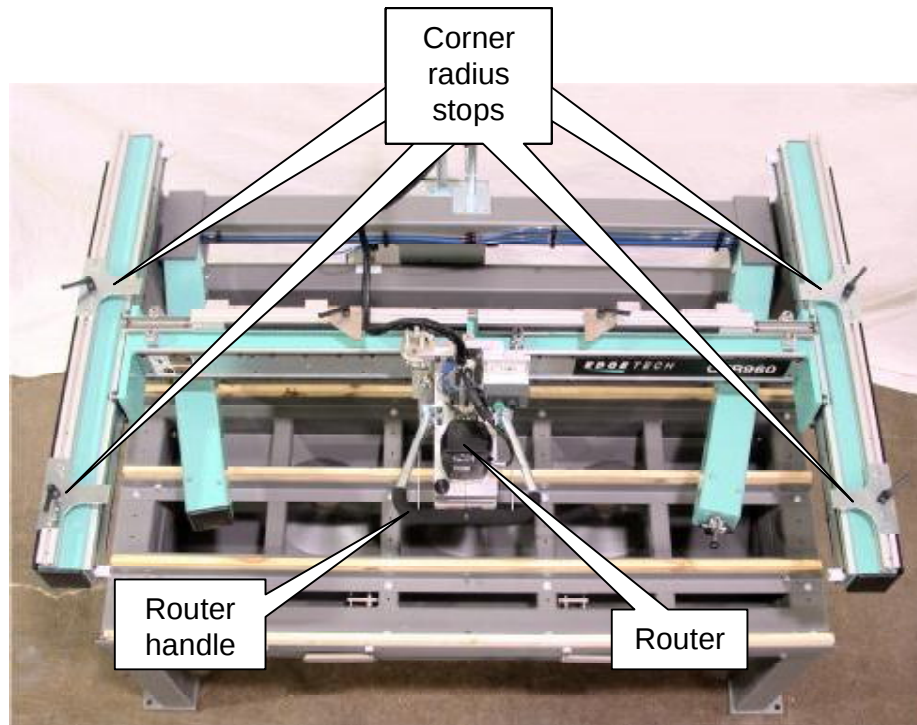


Figure 1

CTR960 COUNTERTOP ROUTER

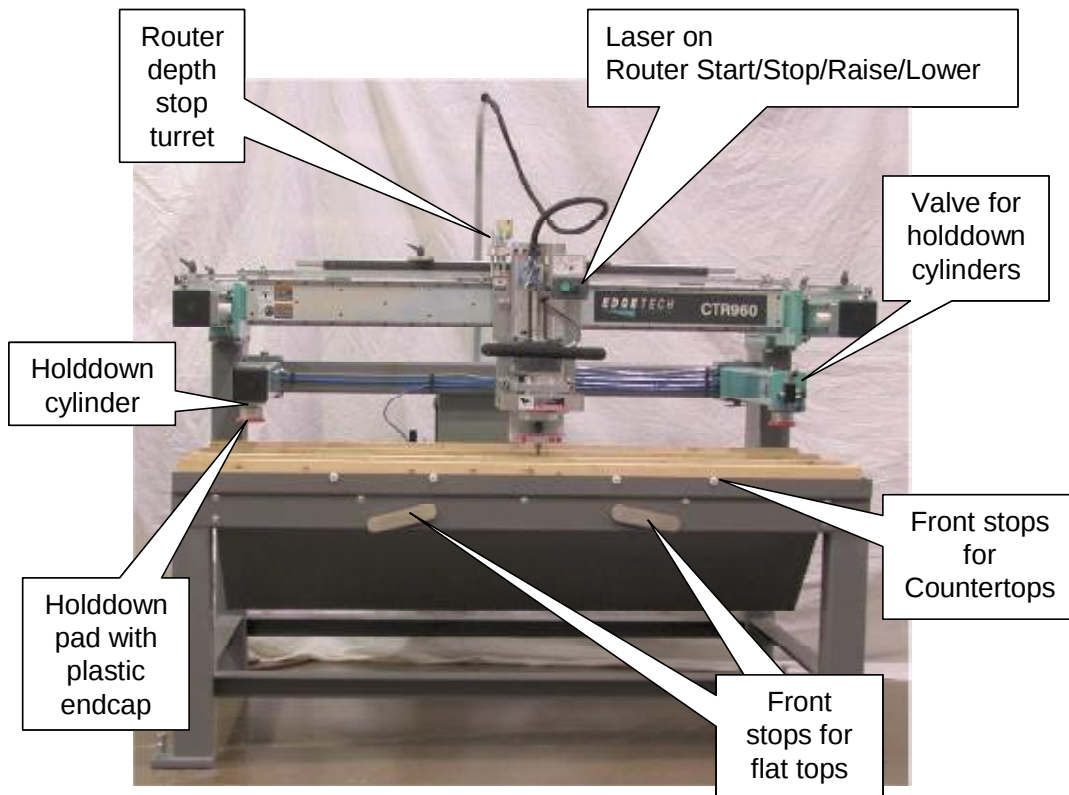


Figure 2

CTR960 COUNTERTOP ROUTER

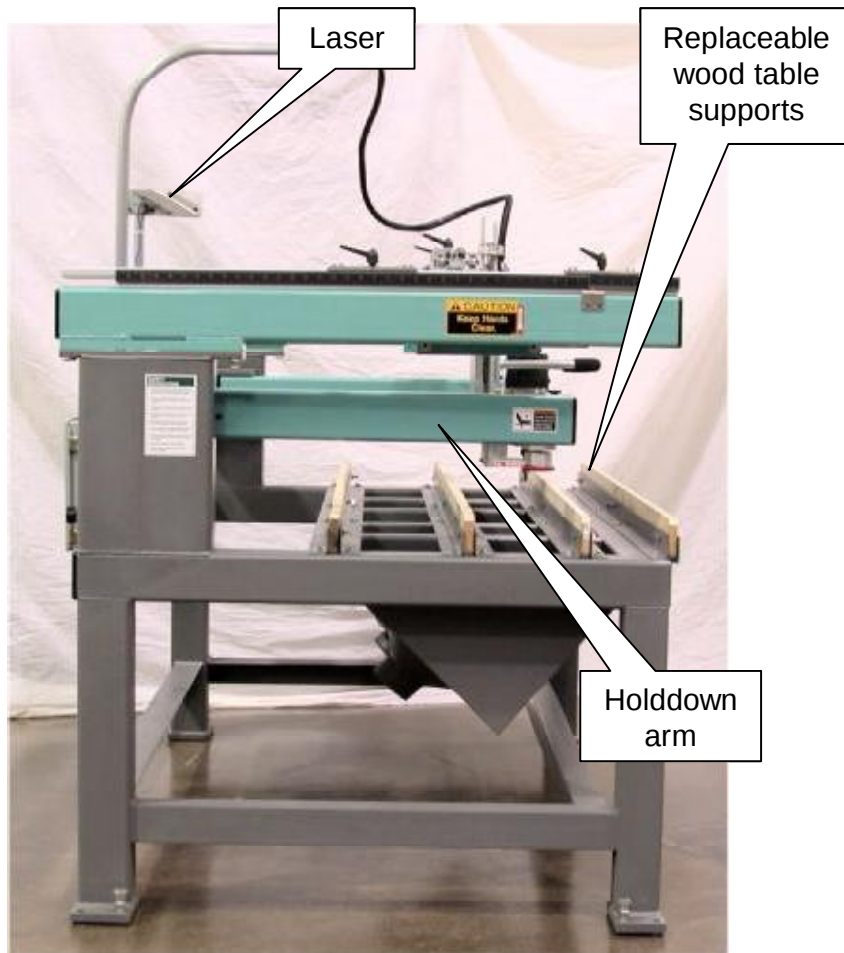


Figure 3

CTR960 COUNTERTOP ROUTER

Section 1-1 Depth Setting

Adjustment of the bit protrusion

1. Loosen the 3/8" socket head cap screws in the two router mount plates (top & bottom screws), but do not loosen the screw in the height adjust plate (middle) (Figure 4)
2. Turn hand knob to raise/lower the router (extending or retracting the bit through the guide bushing)
3. The initial setting will be with the router bit extending through the guide bushing approx. 1/8" more than the thickness of the material being routed
4. Tighten clamp screws in the router mount plates

NOTE: The router bit will tend to dull first at the point that is cutting the laminate. The bit life can be maximized by increasing the bit protrusion through the guide bushing in .040" - .060" increments. One revolution of the knob will move the router and bit up or down .062".

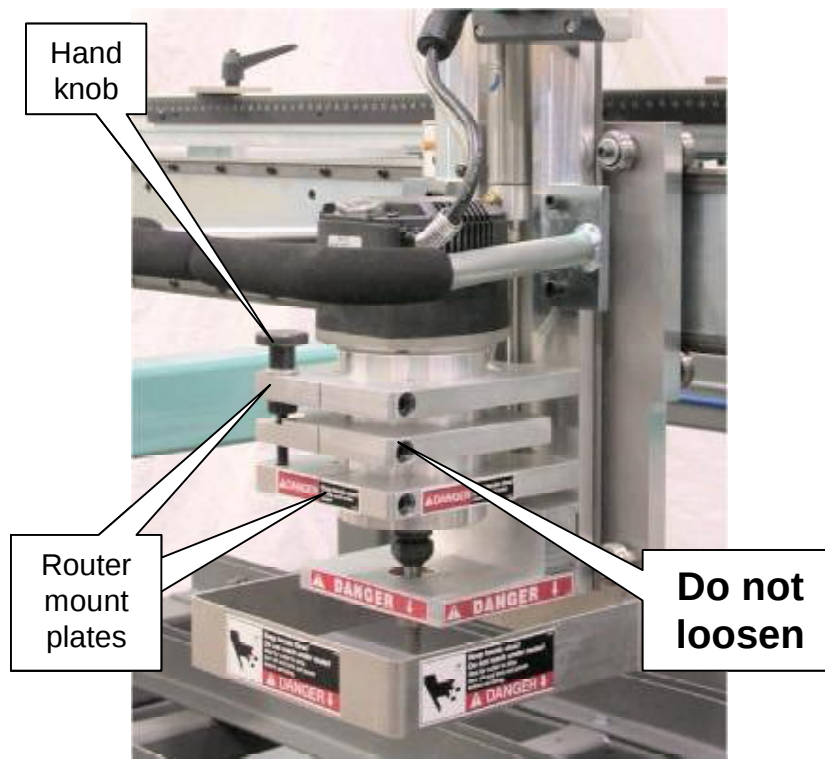


Figure 4

CTR960 COUNTERTOP ROUTER

Section 1-2 Guide Height Adjustment

1. Three stop screws are provided. One will be for routing cutouts using the adjustable guide system, the second will be for using special shape templates or when using the endcap template. The third will be for using the coped sidesplash template.

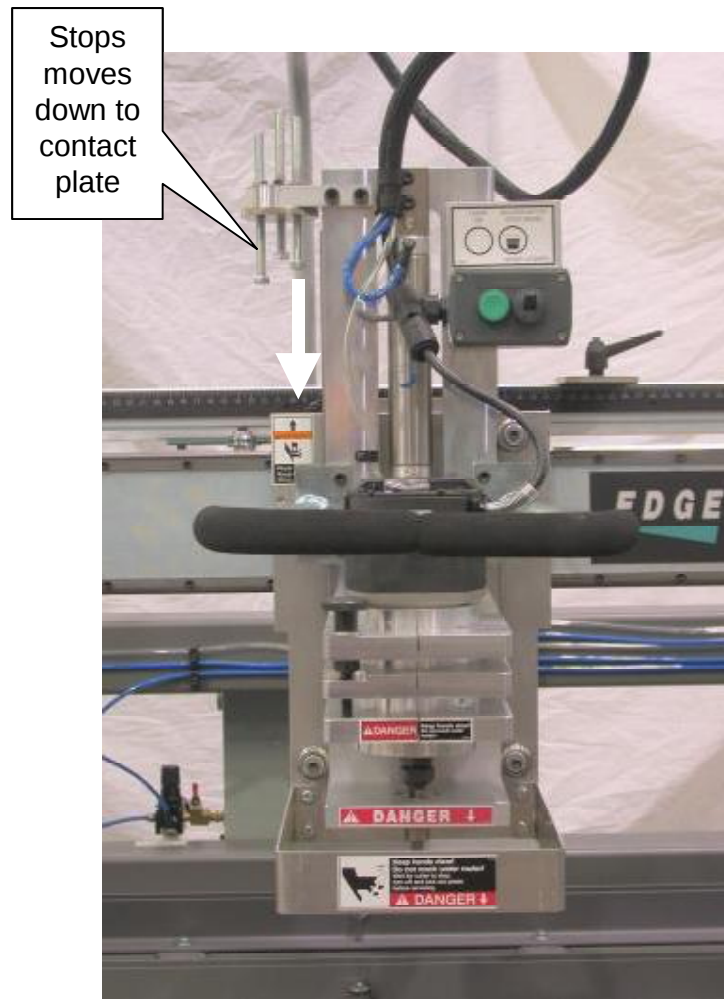


Figure 5

2. Set one stop screw so the router guide bushing (see Figure 6) clears the countertop surface by 1/32" to 1/16"

CTR960 COUNTERTOP ROUTER

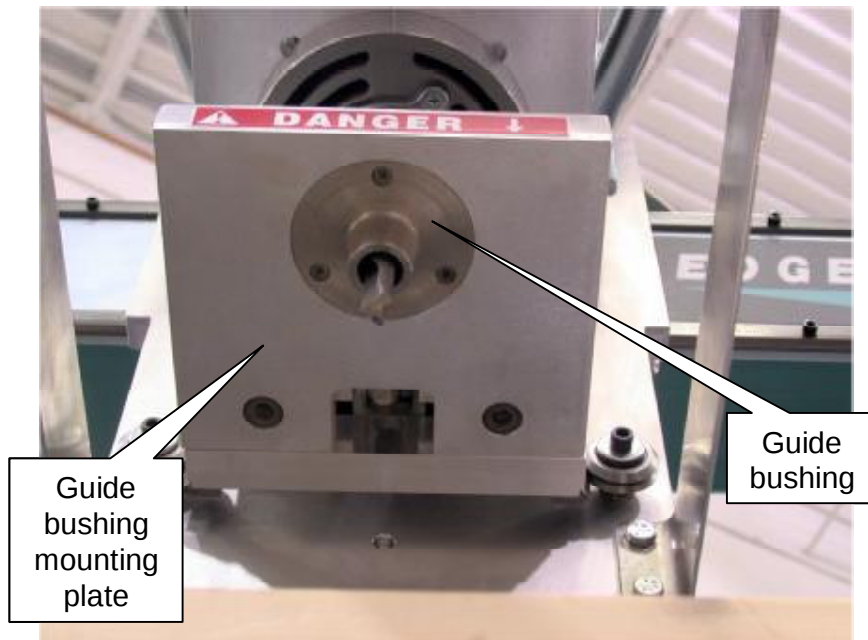


Figure 6

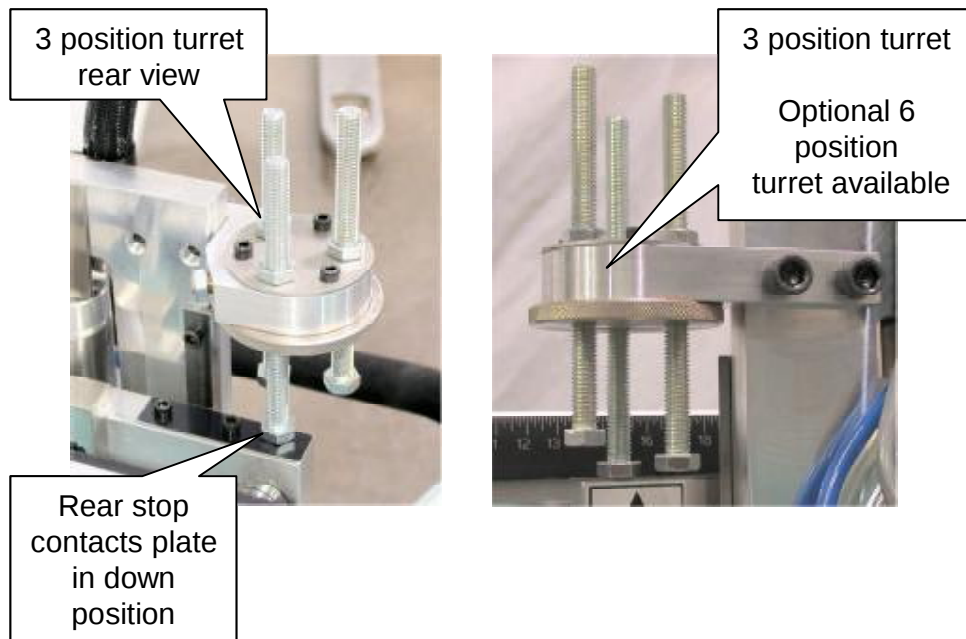


Figure 7

CTR960 COUNTERTOP ROUTER

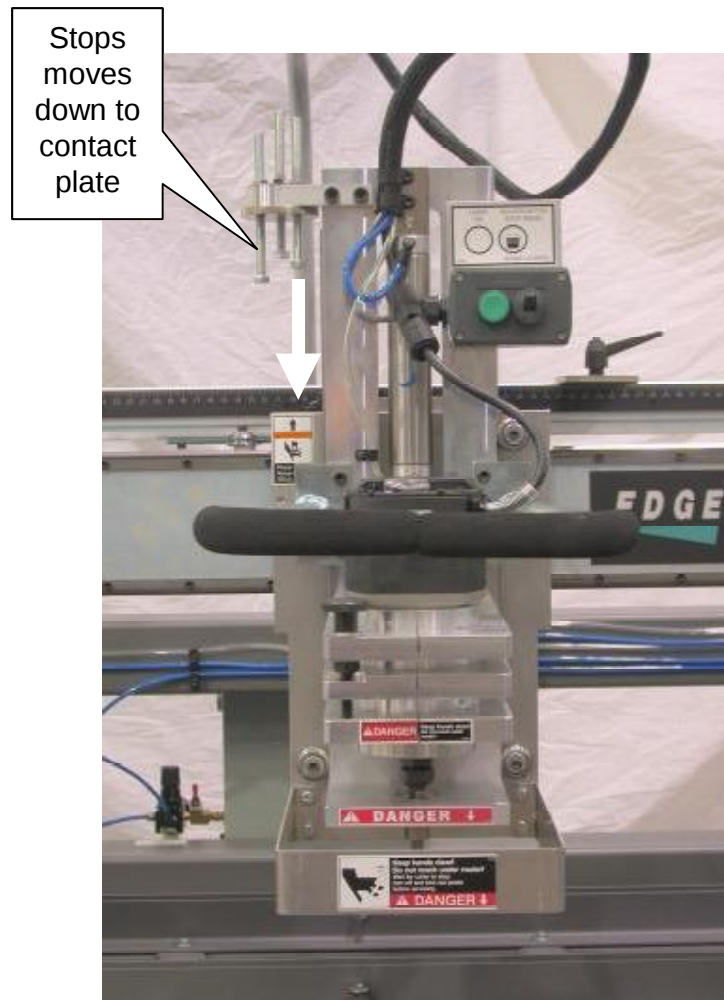


Figure 8

3. Set the 2nd stop screw so the guide bushing mounting plate clears the endcap template surface (with six laminate blanks loaded) or the special shape template surface by 1/32" to 1/16"
 4. Set the 3rd stop screw so the guide bushing mounting plate clears the endsplash template surface by 1/32" to 1/16"
- Note: a spring loaded detent holds the desired stop in position

CTR960 COUNTERTOP ROUTER

Section 1-3 Guide System Settings

1. Select the 4 corner radius template/stops (see Figure 12) with the desired radius (sizes are stamped on the stops) and mount them so the desired radius is to the inside (see Figure 9). Be sure the pin on the sliding scales on the side of the extrusion is located in the slot on the front template/stop.

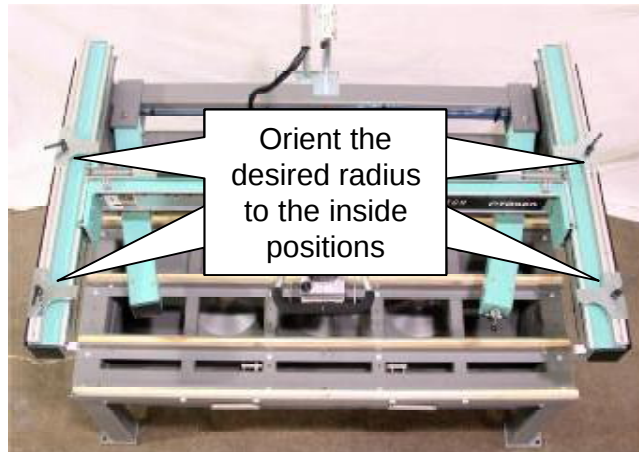


Figure 9

2. Using the scale on the side of the machine, position the front template/stops for the distance of the cutout from the inside of the backsplash or edge of flat panel (bartop) by aligning the desired dimension with the pointer (see Figure 10).

CTR960 COUNTERTOP ROUTER

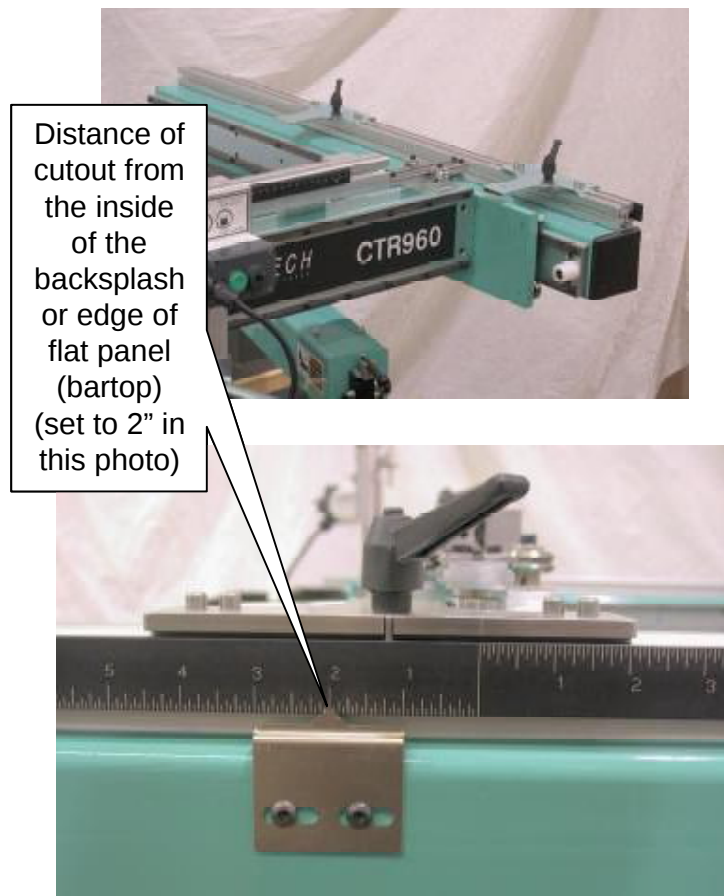


Figure 10

3. Position the back template/stops to the desired depth of the opening using the scribe mark on the edge of the template/stop (use the scribe mark directly opposite the radius being used).
4. Position the left and right stops for the width of the cutout (see Figure 11) to the desired dimension. The scale is in half-scale increments so if you want a 20" opening width, set the left and right stops at 20".

CTR960 COUNTERTOP ROUTER

Stops for
width of
cutout

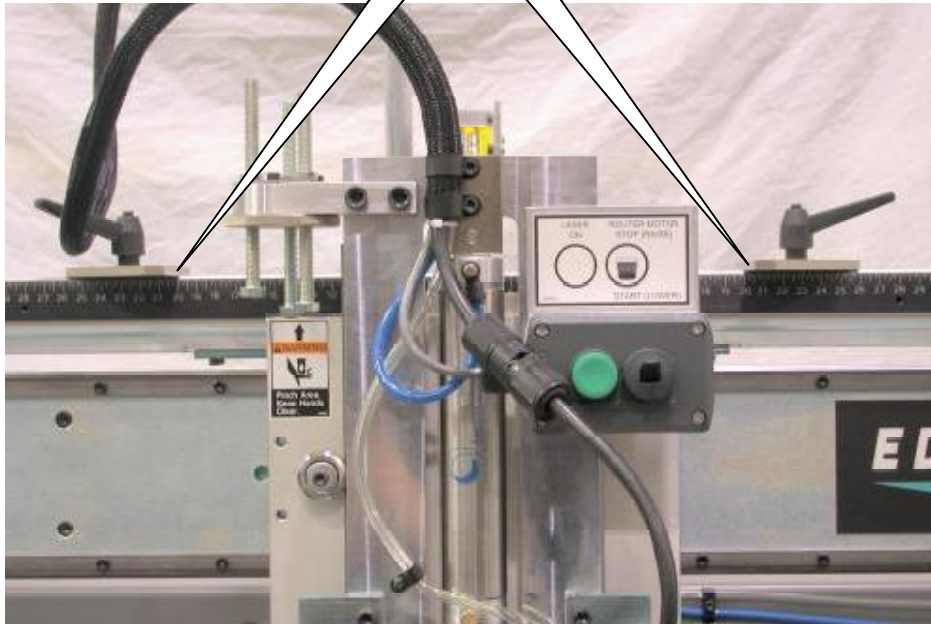


Figure 11

CTR960 COUNTERTOP ROUTER

Section 1-4 Setting Position of Radius Corner Stops

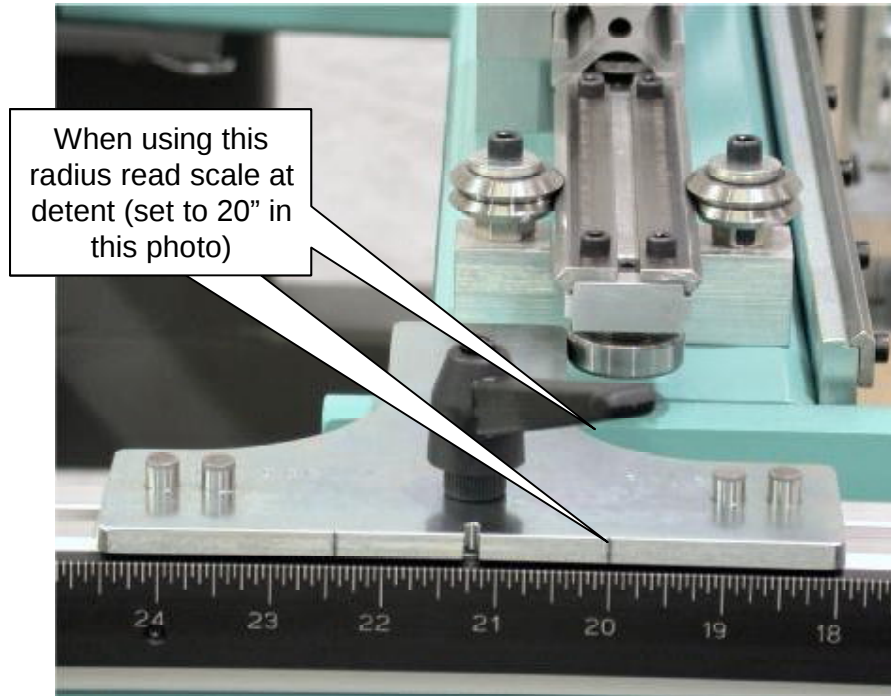


Figure 12

CTR960 COUNTERTOP ROUTER

Section 1-5 Installing Router Bit

WARNING! Be sure main power is off and locked out before removing or installing router bits.

1. Cover dust collection openings to prevent tools/hardware from entering
2. Loosen clamp screws in top and bottom router mount plates
3. Turn hand knob until router bit protrudes through the guide bushing 1"
4. Clean all dust from collet and bit area
5. Loosen collet with wrenches provided in shipping kit, unscrew collet nut until it pulls the collet loose
6. Remove the router bit
7. Insert a new bit into the collet, leaving 1" protruding through the guide bushing (be sure that the bit shank extends through the collet)
8. Tighten collet nut securely
9. Adjust bit protrusion through the guide bushing (see depth setting instructions Section 1-1, page 6)

CTR960 COUNTERTOP ROUTER

Section 1-6 General Machine Operation

1. Be sure all guards and safety devices are in position and working properly
2. Refer to router bit installation and stop setting instructions before using machine
3. Be sure all connections are made to dust collection system
4. Router can be turned on and lowered into the top to be cut by moving the switch located above the router mount to the down position
5. Router can be turned off by moving the switch located above the router mount to the up position (This also pneumatically raises the router to the up position)
6. The router should always be moved to one of the back corners of the machine before placing a top onto or removing a top from the machine
7. The laser will automatically shut off after a few minutes to conserve the life of the laser

WARNING! Never reach under the router mount where the router bit is mounted!

Even when the router is turned off and is stopped, the bit can cause cuts

CTR960 COUNTERTOP ROUTER

Section 1-7 Using Guide System

1. Place the top to be cut upside down onto the wood supports with the backsplash to the front of the machine and push the backsplash tight against the bumpers (see Figure 13). For flat panels (bartop), rotate the stop arms to the up position (see Figure 13) and pull the edge of the flat panel (bartop) against the stop surface.

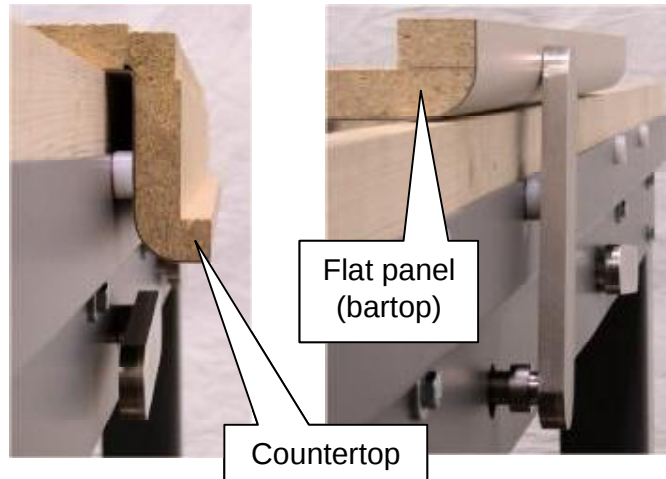


Figure 13

2. Mark the location of the center of the opening to be cut (see Figure 14)

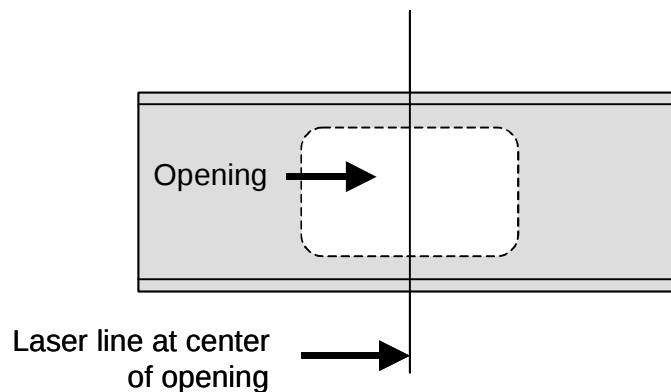


Figure 14

3. Press the laser button to turn the laser light on (it will remain on for a couple of minutes, then automatically shut off to conserve the life of the laser light).
4. Slide the top so the centerline is aligned with the laser line (see Figure 14) and the backsplash is located tight to the front stops.
5. Move the holddown clamp arms over the countertop and clamp the top

SECTION 7
ILLUSTRATIONS
COUNTERTOP ROUTER
CTR960

CTR960 COUNTERTOP ROUTER

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CTR960 COUNTERTOP ROUTER

Section 1 Illustrations

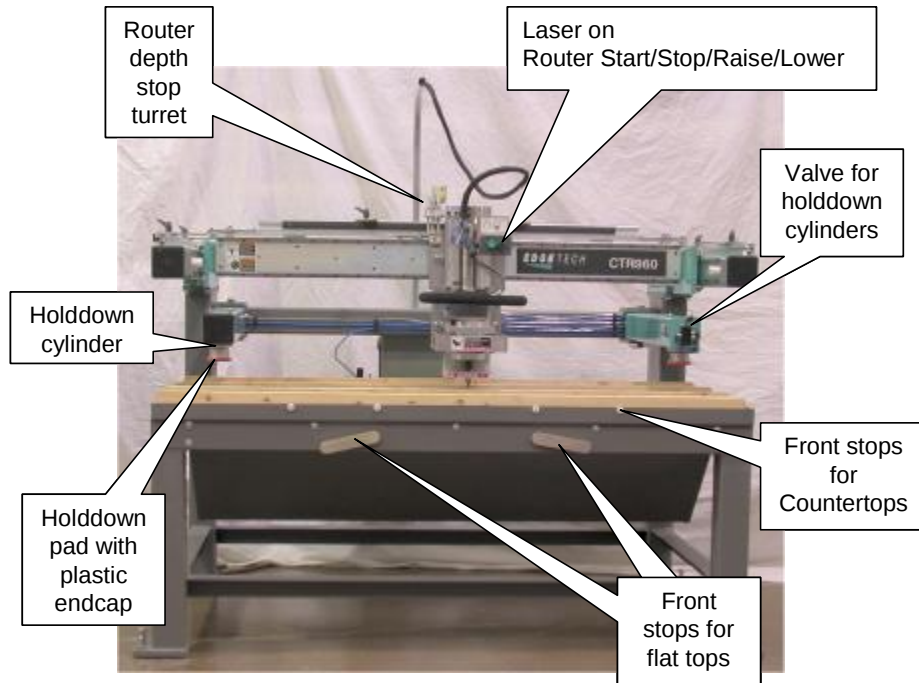


Figure 1

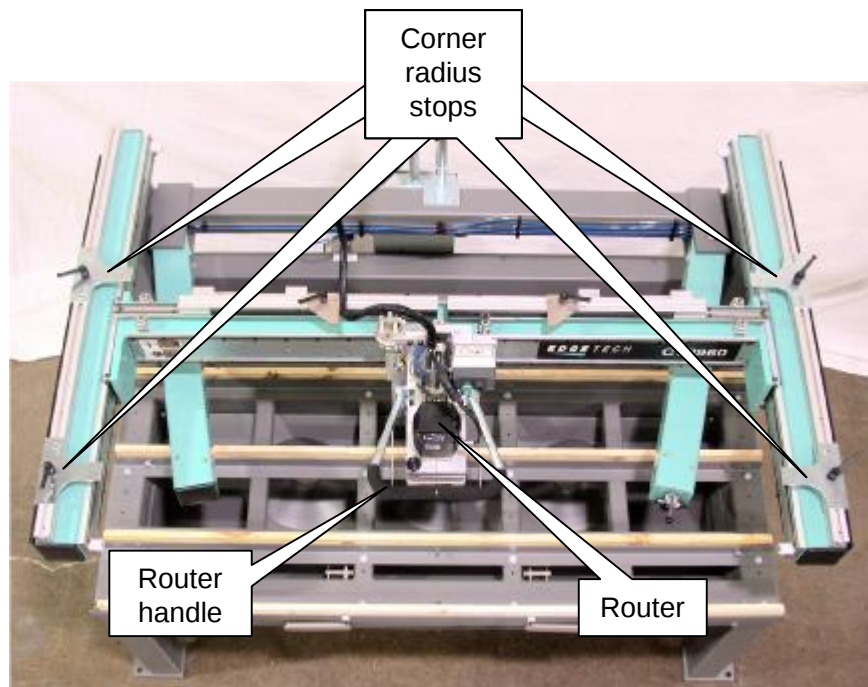


Figure 2

CTR960 COUNTERTOP ROUTER

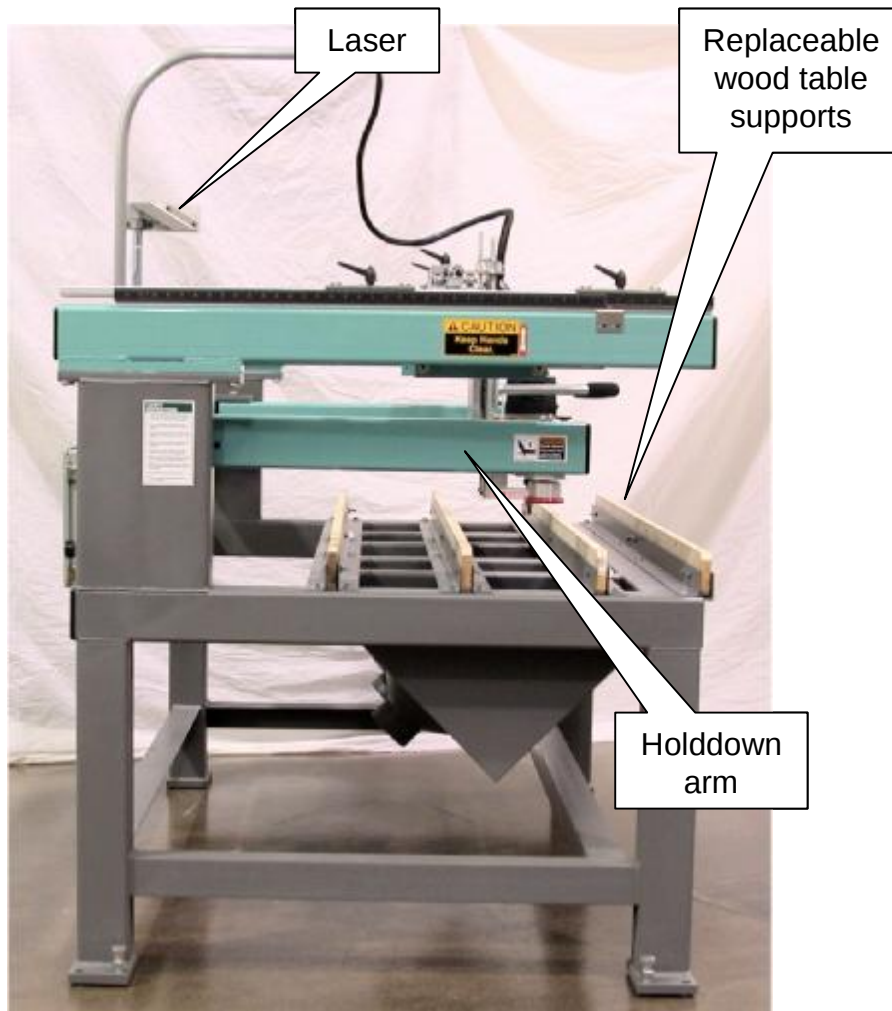
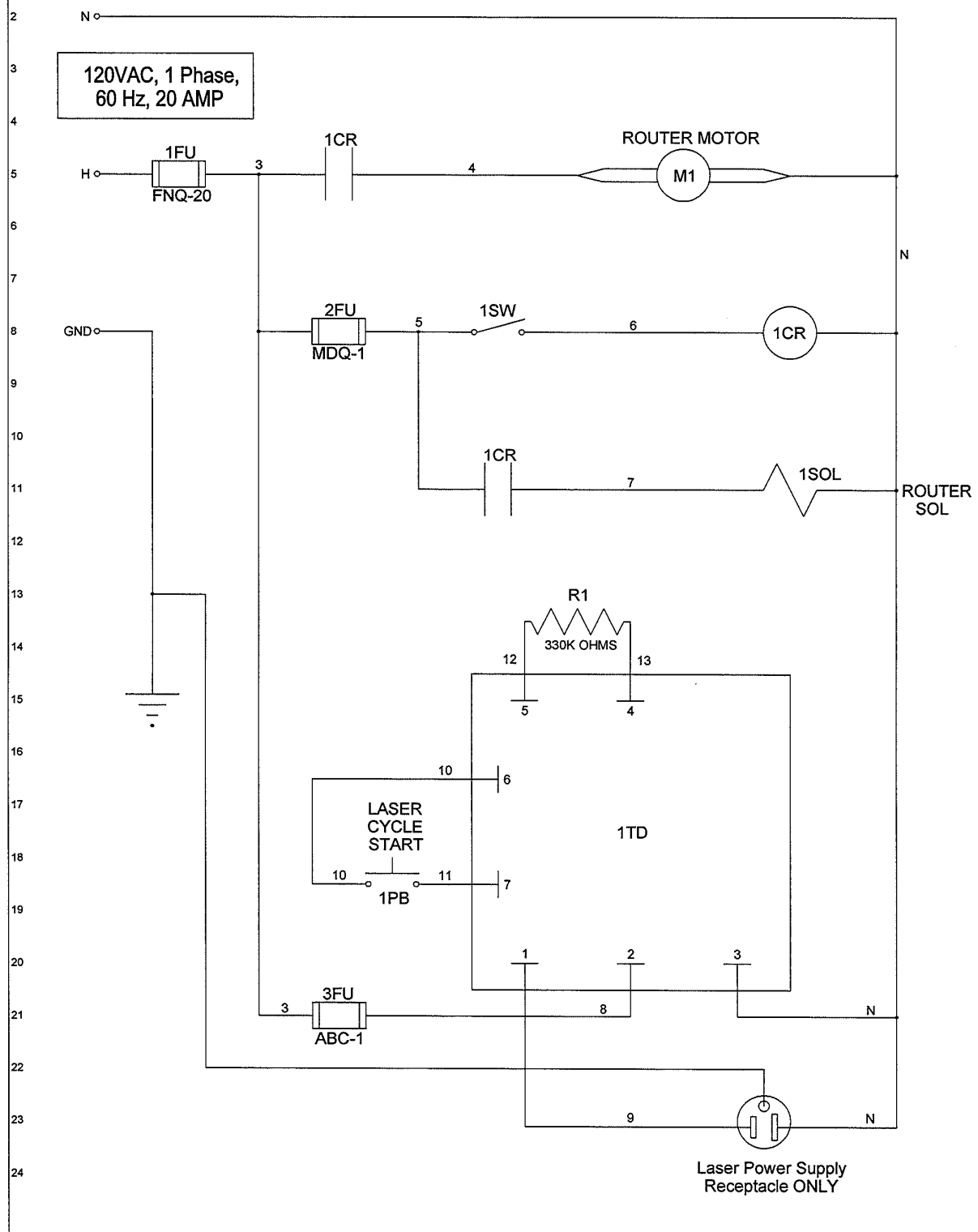
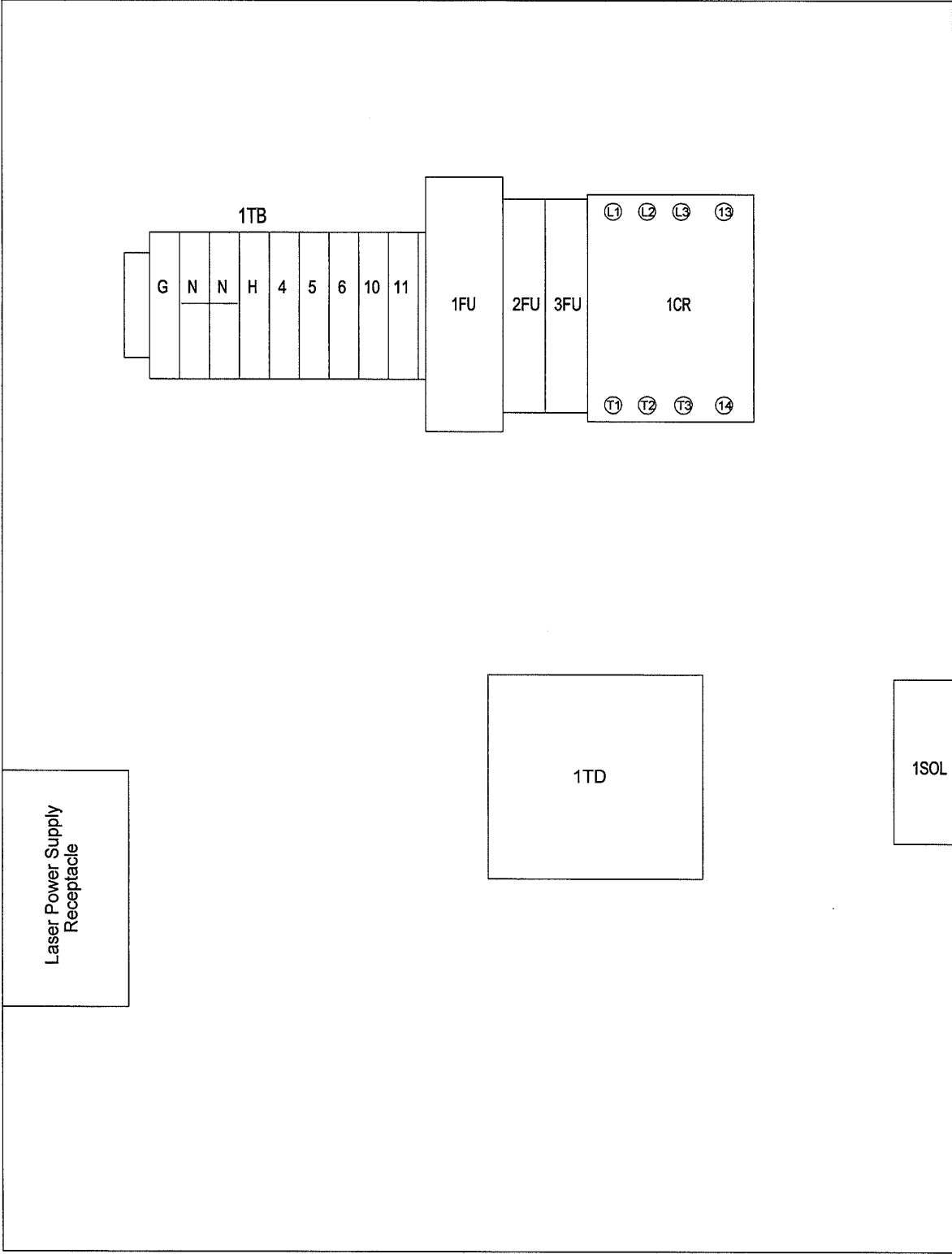


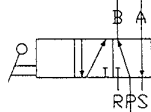
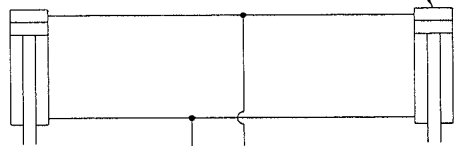
Figure 3

CUSTOMER TO SUPPLY FUSED DISCONNECT OR UL489
CIRCUIT BREAKERS PER STATE & LOCAL CODES



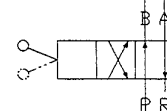


HOLD DOWN
CLAMPING CYLINDER



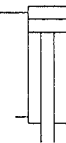
CARRIAGE BRAKE
CYLINDER

OPTIONAL
CARRIAGE BRAKE



BRAKE
CYLINDER
VALVE

ROUTER LIFT
CYLINDER
NORMALLY
EXTENDED

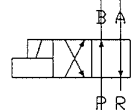


ROUTER



AIR BLAST

VALVE
FLOW CONTROL
METER OUT



FILTER
REGULATOR

80 PSI MINIMUM
CLEAN DRY AIR
SUPPLY

SEE 0003603

DO NOT SCALE DRAWING

MATERIAL

FINISH

EXCEPT AS NOTED
TOLERANCES:
FRAC ±

DEC. .XX ± .02

.XXX ± .005

ANG. ± 1°

PRODUCT CTR960

DR WRP

DATE 04/11/01

CH

DATE

AP

DATE

TITLE

PNEUMATIC SCHEMATIC
CTR960

MC MODULAR CONCEPTS, INC.
.....

FILE(S)

CAD...

CAM...

SIZE

A

DWG. NO.

0003604

REV.

00

SCALE NONE

SHEET 1

OF 1

SECTION 10

REPLACEMENT PARTS

COUNTERTOP ROUTER

CTR960

CTR960 COUNTERTOP ROUTER

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CTR960 COUNTERTOP ROUTER

Item	Part No.	Description	Page
1	5234700	track, front to back	Figure 1
2	5234800	track, side to side	Figure 2
3	5234900	track, up & down	Figure 3
4	5169900	holddown pad	Figure 4
5	5170000	cover - holddown pad	Figure 4
6	5237703	bushing, router guide [7/8"]	Figure 5
7	1012802	bearing linear guide wheel	Figure 6 Figure 7
8	2004601	router, 3¼ HP, 120VAC	Figure 7
9	1011141	cylinder, air 1.5 x 6.0 stroke	Figure 7
10	1011148	cylinder, air 2.00 x 3.00 stroke	Figure 8
11	1009203	laser	Figure 9
12	1019303	valve, air (hand lever)	Figure 4
13	1008503	bit, router ½" dia. x 4.00"	Figure 5
14	1014101	spring plunger, 3/8-16 x 5/8	Figure 10
15	1019200	foam grip	Figure 11
16	1001806	fitting, poly "y" ¼ tube	Figure 12
17	1001601	fitting, poly 90 1/8NPT-¼ tube	Figure 4 Figure 13
18	1001602	fitting, poly 90 1/4NPT -¼ tube	Figure 13
19	1004000	fitting, muffler 1/8NPT	Figure 13 Figure 23
20	1001401	fitting, poly male 1/8NPT -¼ tube	Figure 8
21	5350000	bumper top locate	Figure 14
22	2007400	enclosure empty, 2 hole	Figure 15
23	2006000	operator contact block	Figure 15
24	2008805	operator switch toggle black	Figure 15
25	2005900	operator push button extended head green	Figure 15
26	2006612	contactor, 120VAC coil	Figure 16
27	2000312	fuse main power 20 amp (FNQ-20)	Figure 16
28	2000307	fuse control circuit 1 amp (MDQ-1)	Figure 16
29	1019341	solenoid, 4 port	Figure 13
30	1019004	filter regulator with gauge	Figure 17
31	2000327	fuse laser 1 amp (ABC-1)	Figure 16
32	5235800	track, template	Figure 18

CTR960 COUNTERTOP ROUTER

Item	Part No.	Description	Page
33	5238400	template, cutout 1" & 1.5" (other radii avail.)	Figure 19
34	1012404	bearing, ball sealed	Figure 18
35	1019400	handle, adj	Figure 20
36	5238207	plate scale lh	Figure 21
37	5238208	plate scale rh	Figure 21
38	5238209	scale lh 1/2 scale	Figure 22
39	5238210	scale rh 1/2 scale	Figure 22
40	2006902	relay solid state timing	Figure 16
41	5342600	resistor with 1/4 fast on terminals	Figure 16
42	1002200	fitting poly flow control 1/8NPT – ¼ tube	Figure 13 Figure 23
43	5242103	stud/nut, adjusting 5/16-18 UNC	Figure 20
44	1001610	fitting poly 90 extended 1/8NPT-¼ tube	Figure 4
45	1001402	fitting, poly male 1/4NPT -¼ tube	Figure 17
46	1021406	gauge air 0-160 psi 1.50 dia	Figure 17

Section 10 Countertop Router

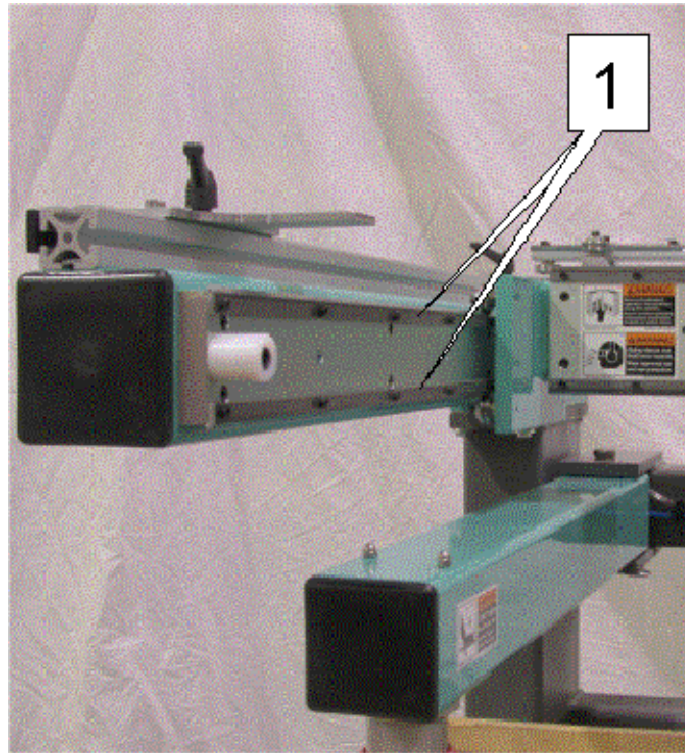


Figure 1

CTR960 COUNTERTOP ROUTER

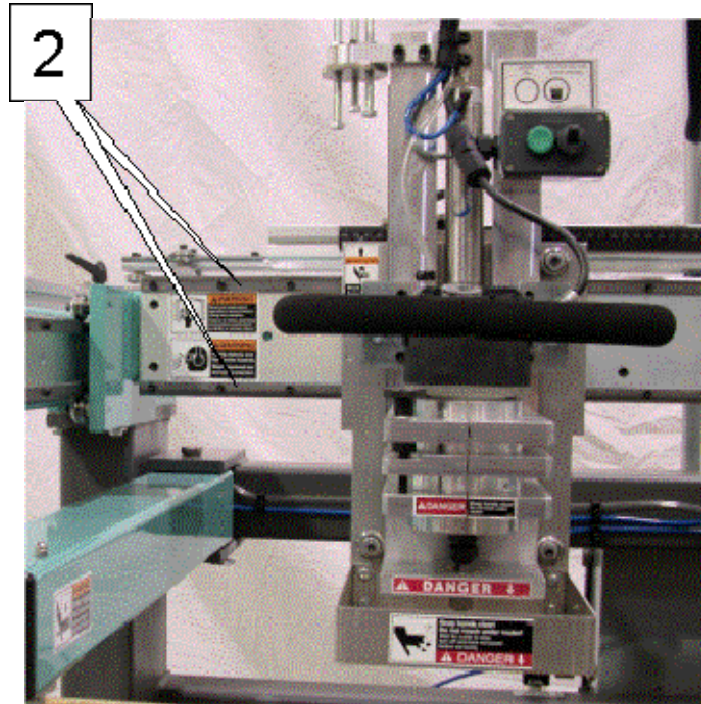


Figure 2

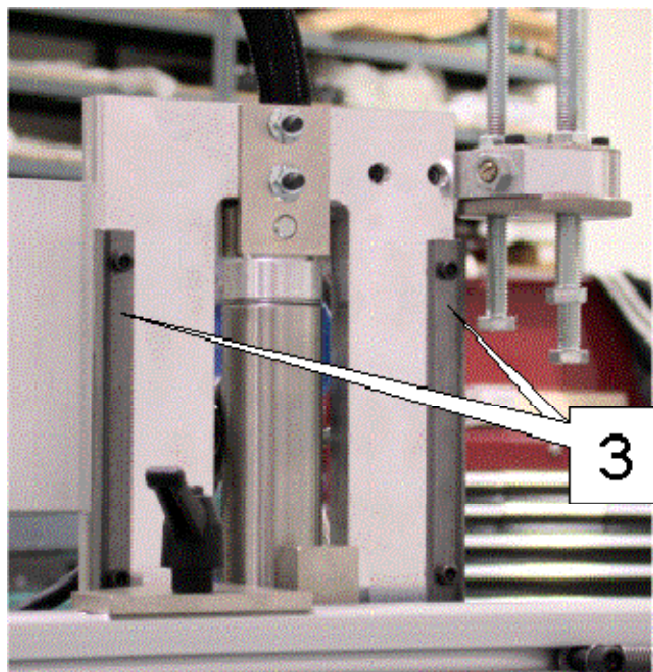


Figure 3

CTR960 COUNTERTOP ROUTER

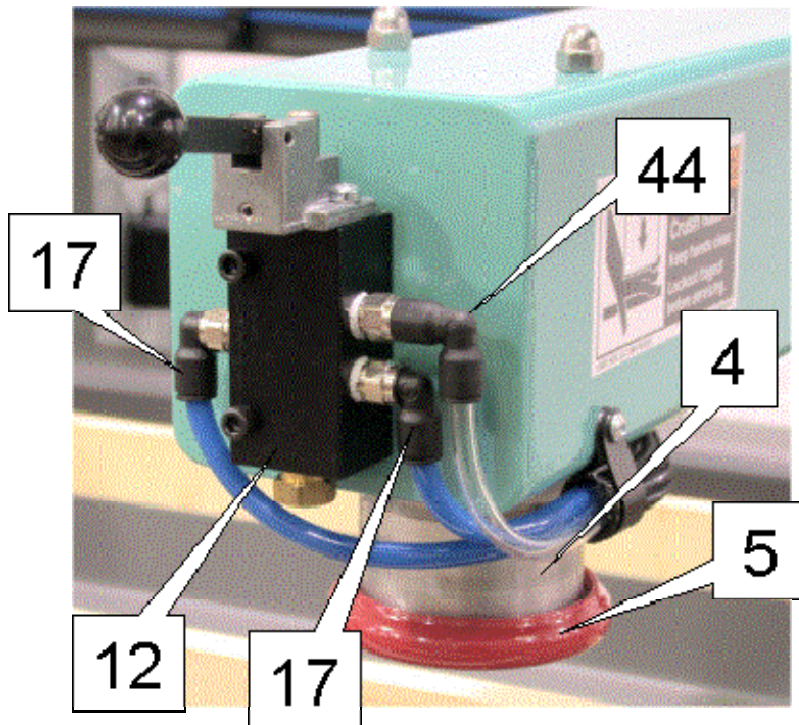


Figure 4

CTR960 COUNTERTOP ROUTER

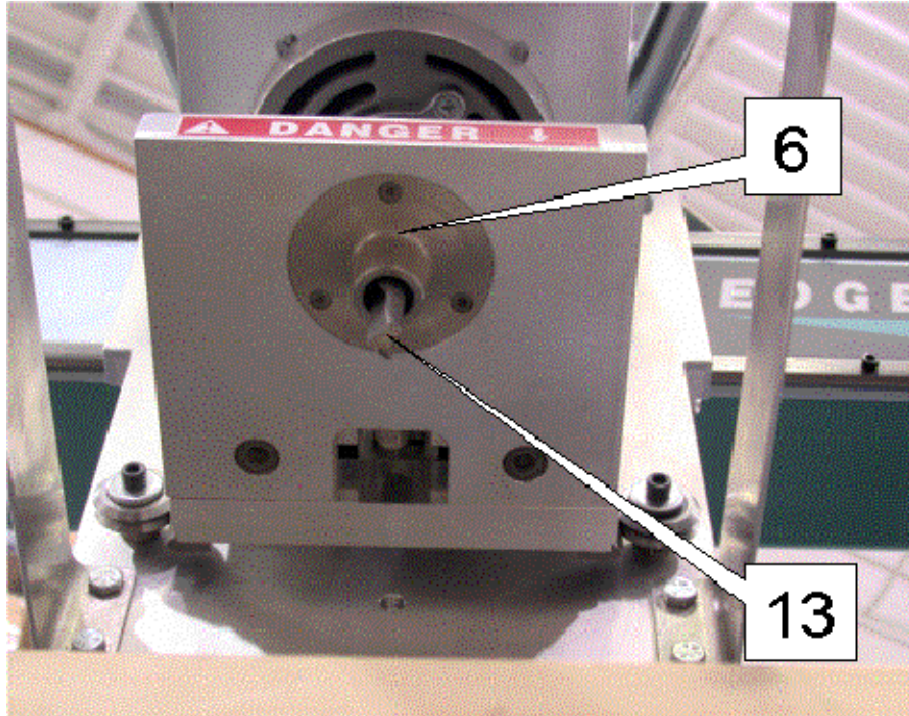


Figure 5

CTR960 COUNTERTOP ROUTER

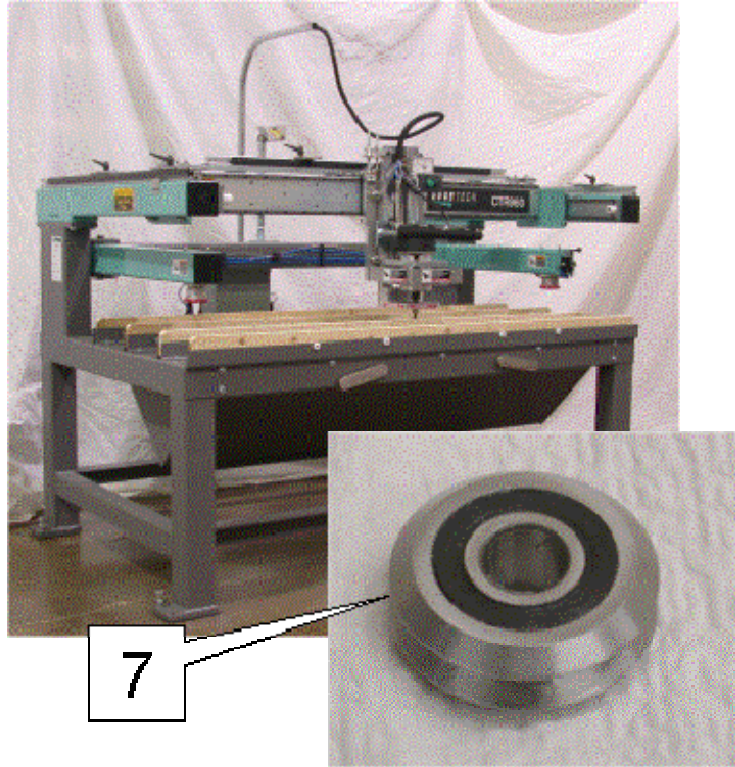


Figure 6

CTR960 COUNTERTOP ROUTER

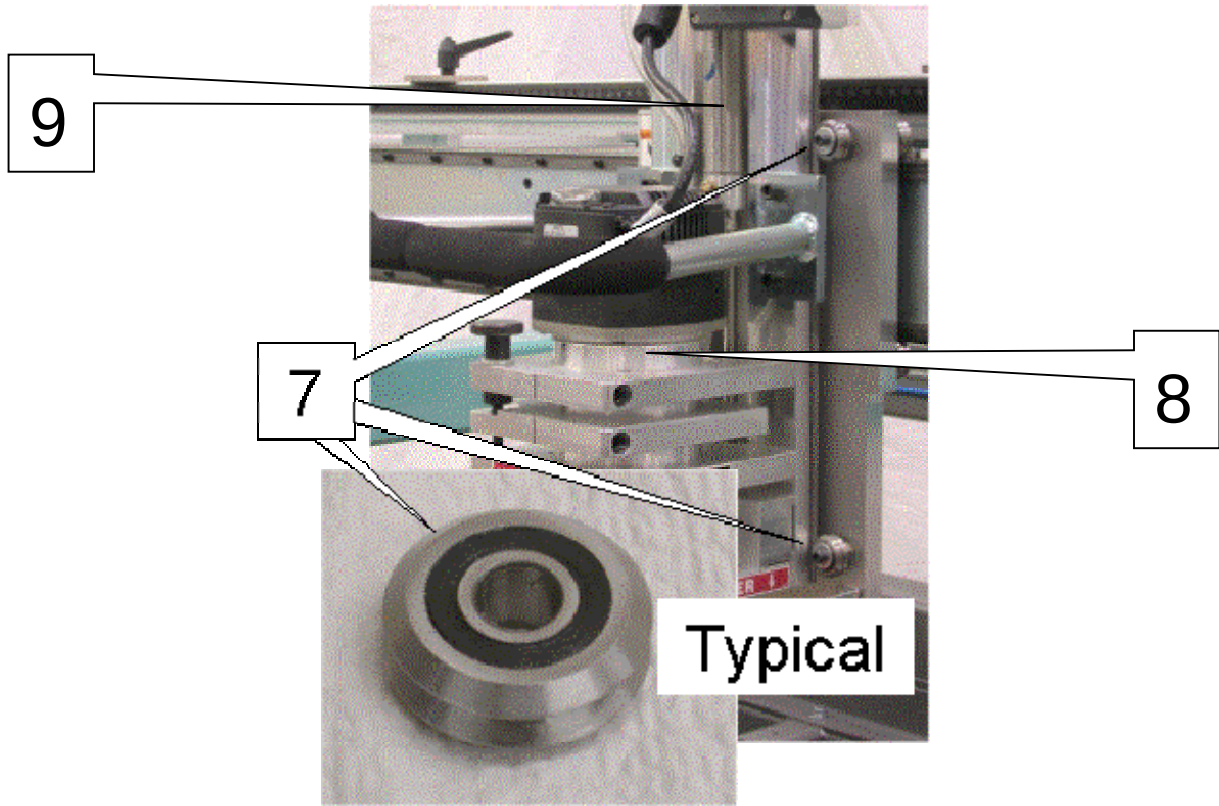


Figure 7

CTR960 COUNTERTOP ROUTER

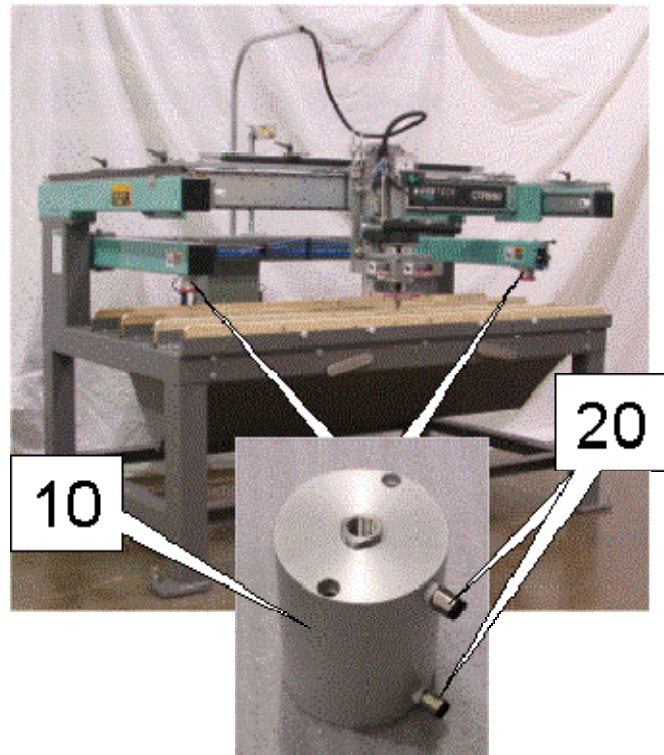
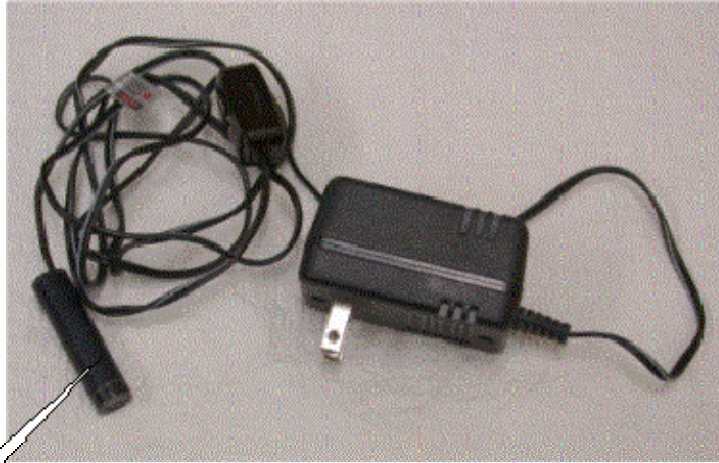


Figure 8

CTR960 COUNTERTOP ROUTER



11



Figure 9

CTR960 COUNTERTOP ROUTER

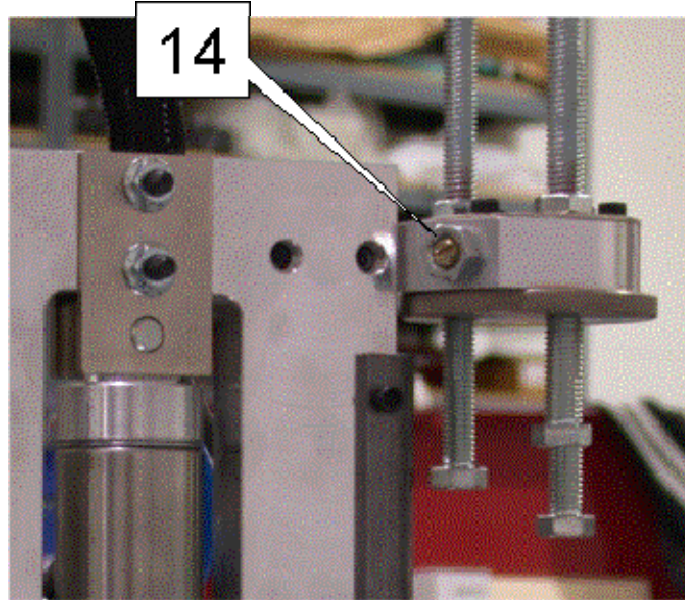


Figure 10

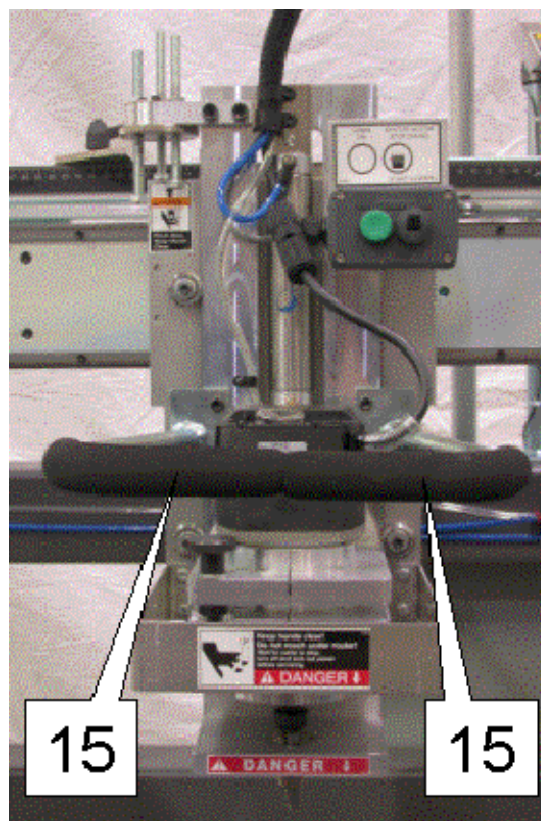


Figure 11

CTR960 COUNTERTOP ROUTER

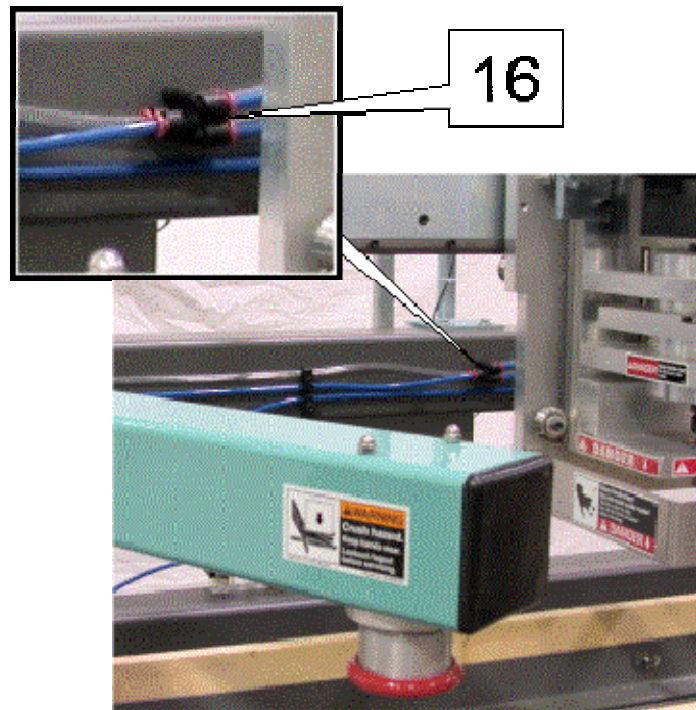


Figure 12

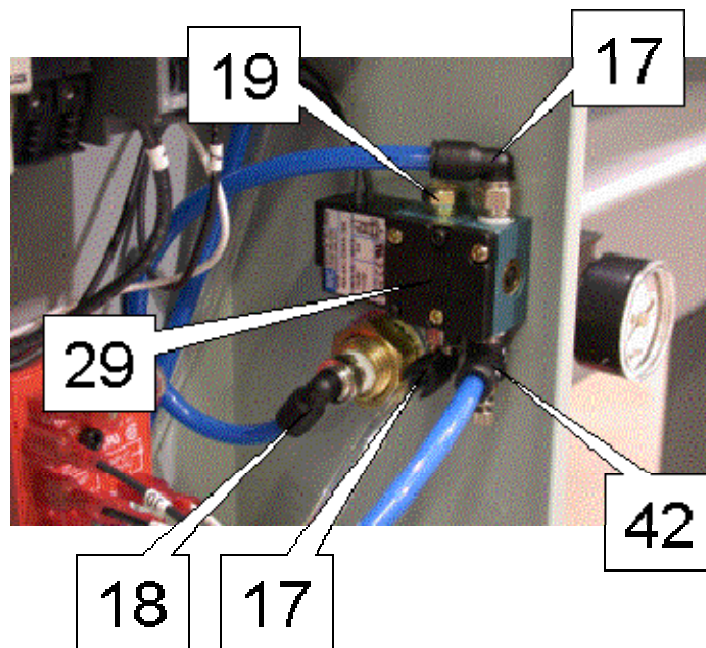


Figure 13

CTR960 COUNTERTOP ROUTER

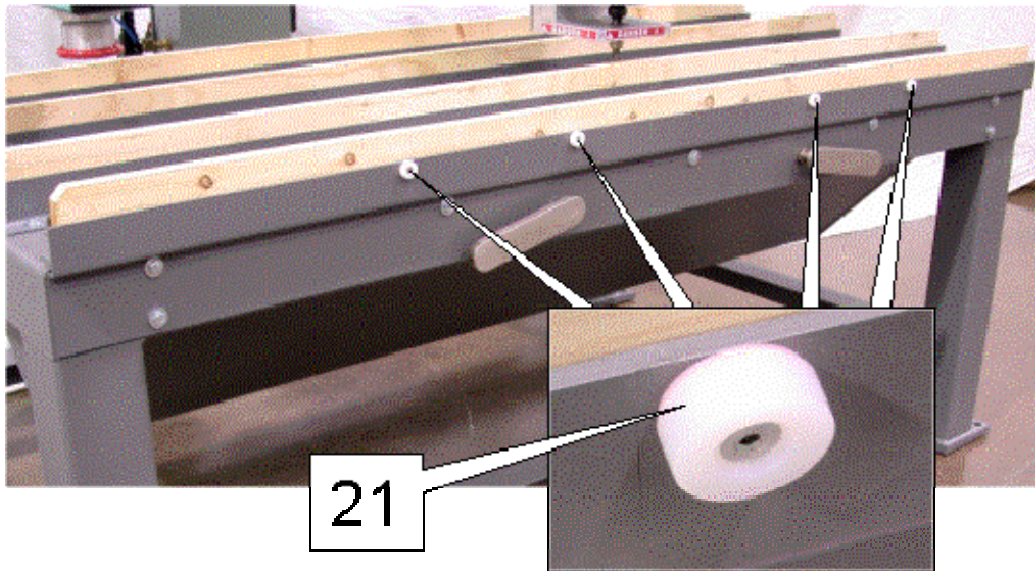


Figure 14

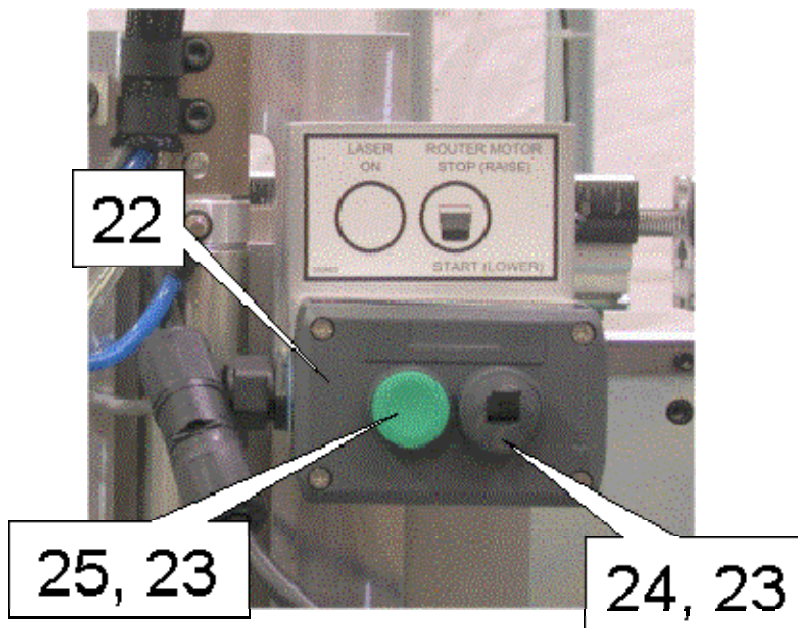


Figure 15

CTR960 COUNTERTOP ROUTER

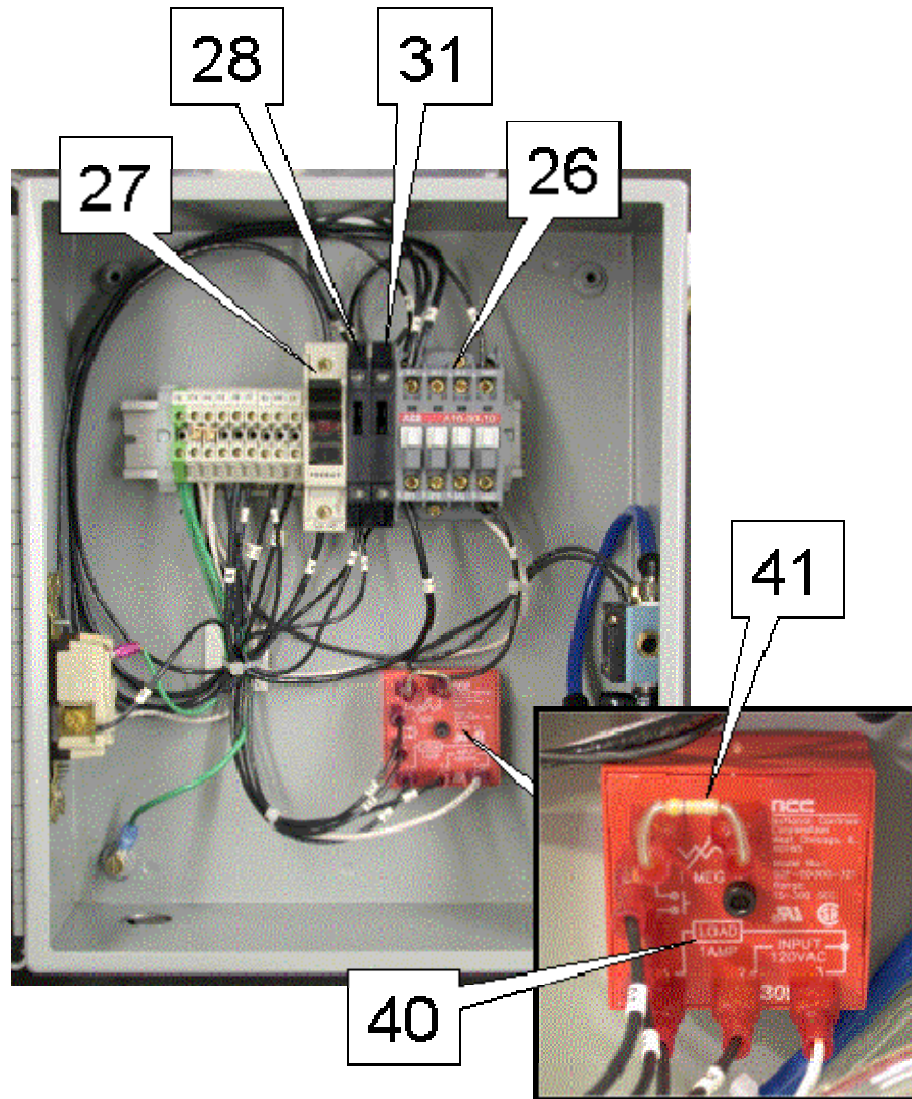


Figure 16

CTR960 COUNTERTOP ROUTER

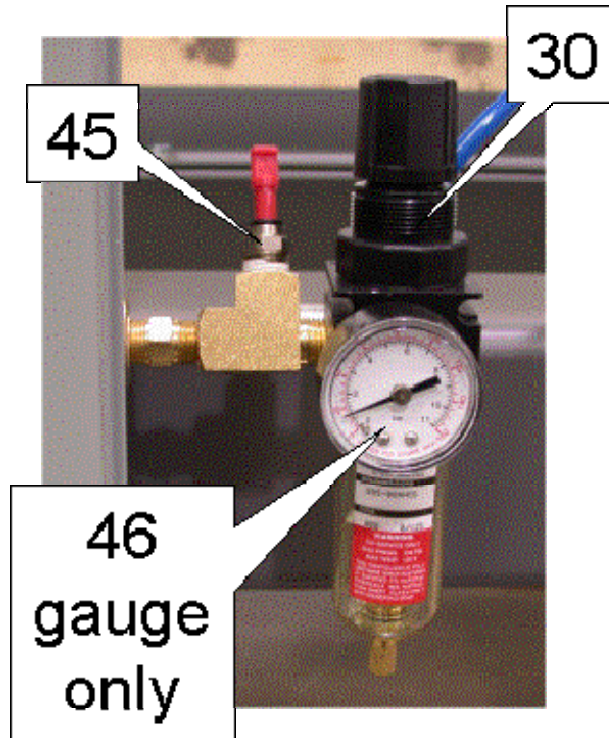


Figure 17

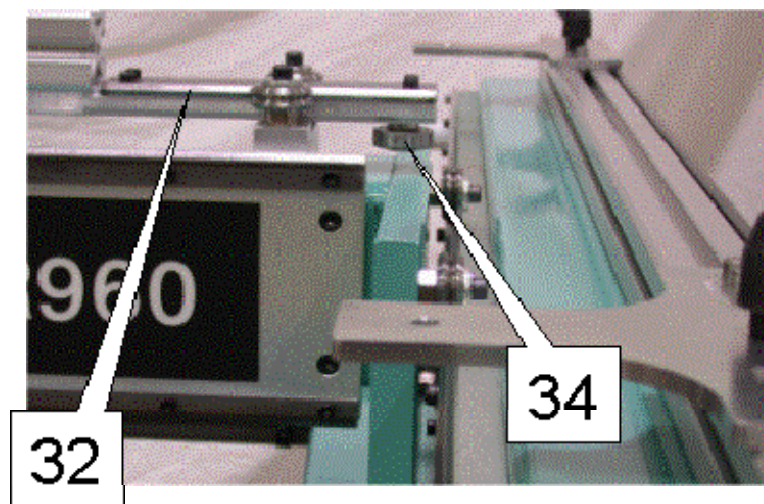


Figure 18

CTR960 COUNTERTOP ROUTER

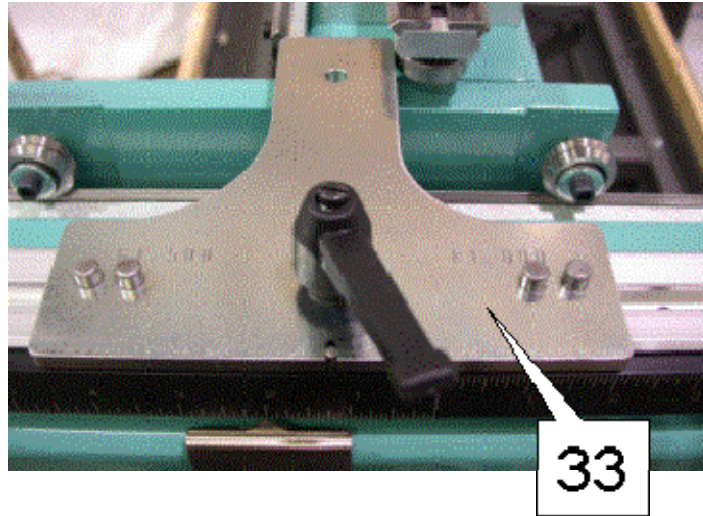


Figure 19

CTR960 COUNTERTOP ROUTER

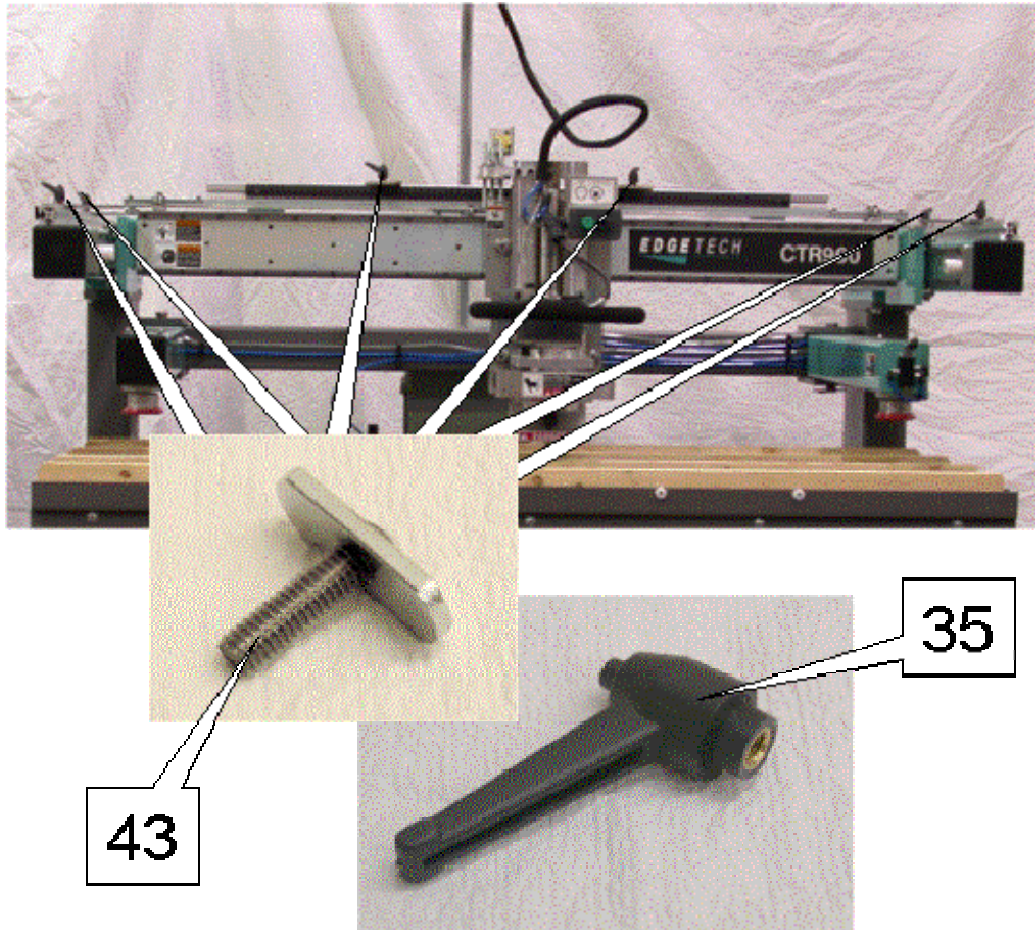


Figure 20

CTR960 COUNTERTOP ROUTER

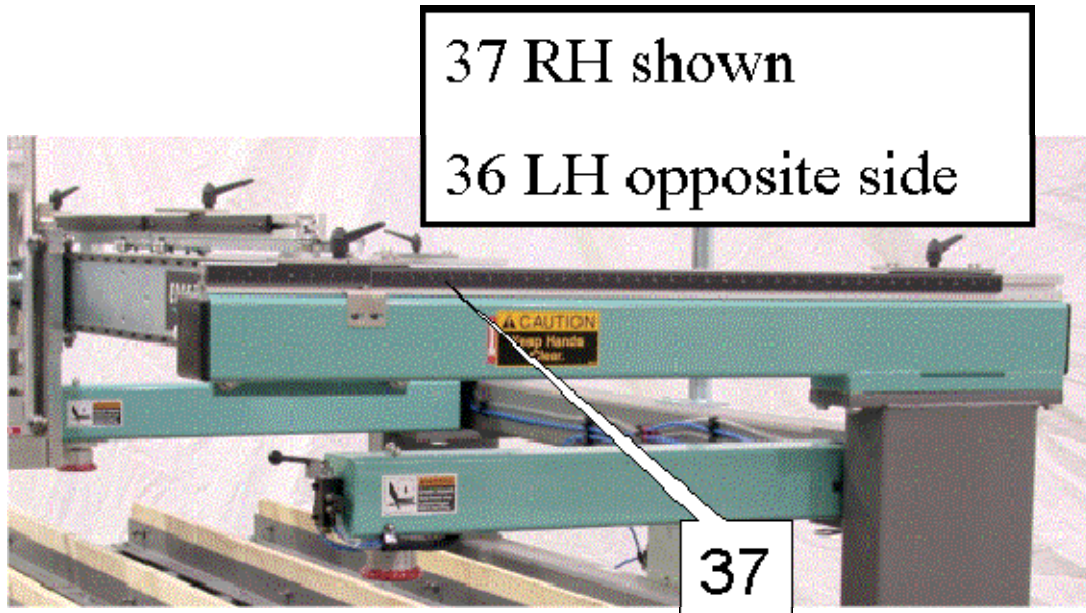


Figure 21

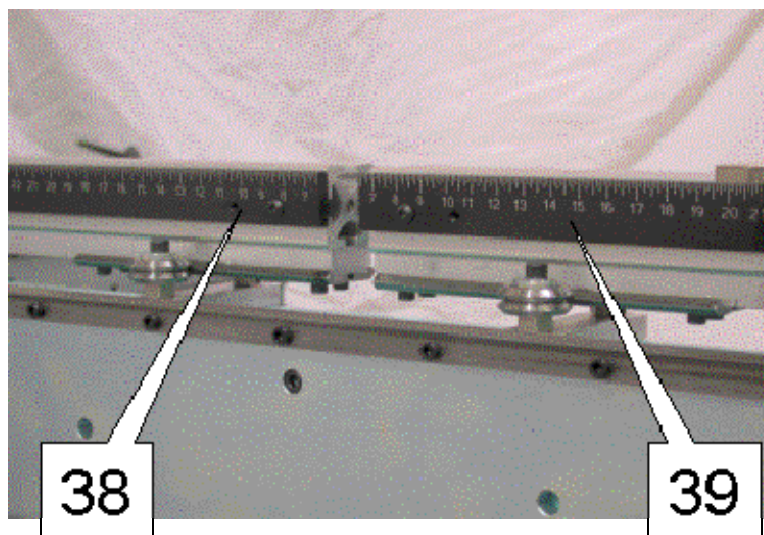


Figure 22

CTR960 COUNTERTOP ROUTER

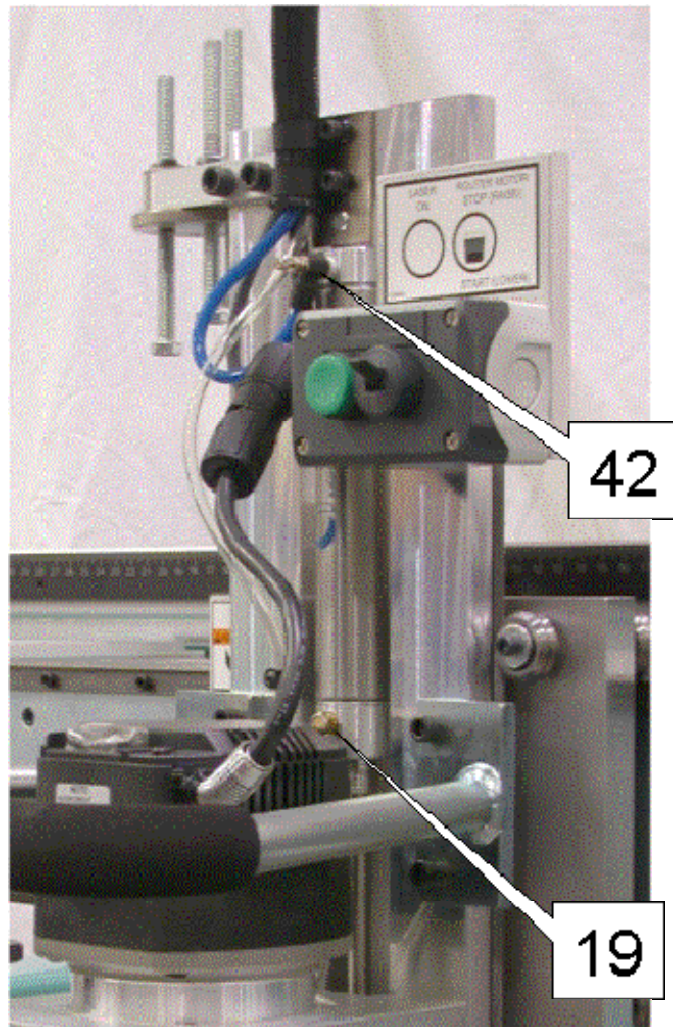


Figure 23