

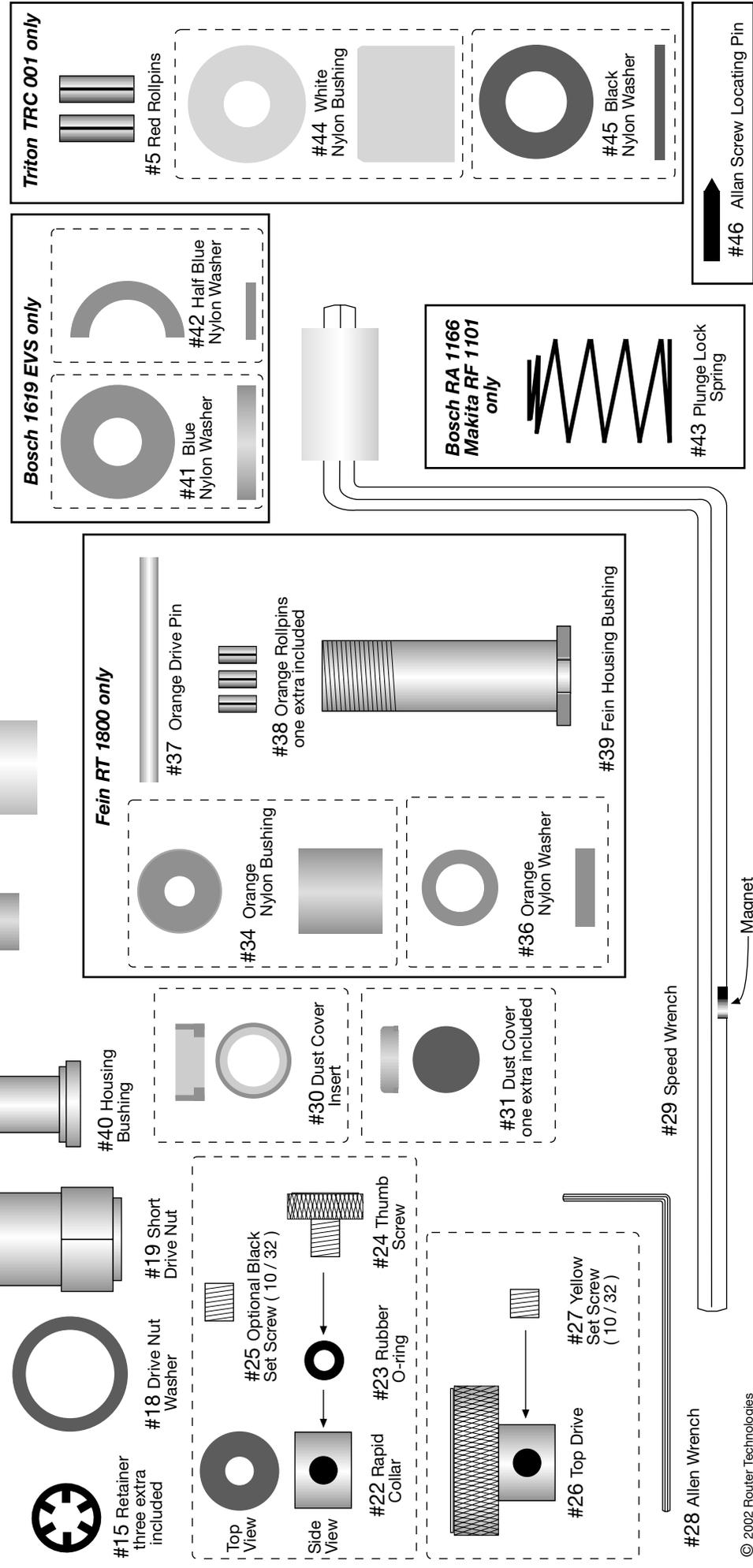
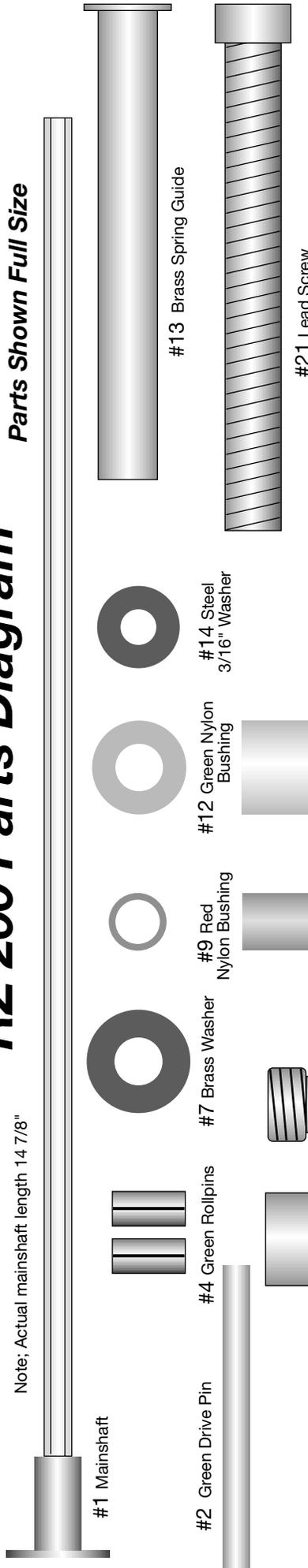
To avoid confusion during installation remove this page and router being installed pages, return others to box.

Caution: Before and during installation of Router Raizer make sure power switch is in the off position and tool is disconnected from power source to avoid accidental starting of the tool which may result in personal injury.

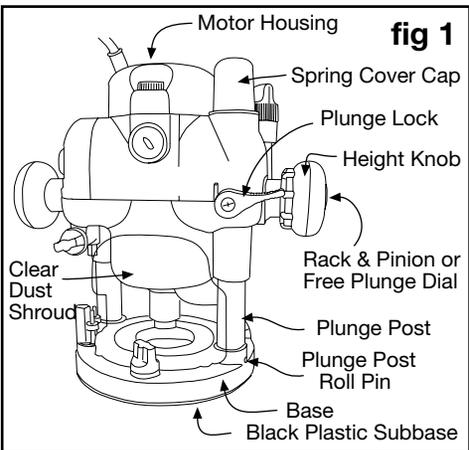
RZ 200 Parts Diagram

Note: Actual mainshaft length 14 7/8"

Parts Shown Full Size



NOTE: Check Off Each Step When Done



Tools Required: 11/16" or 18mm wrench, 1/2" or 13mm drill bit, Drill, Phillips screwdriver, hacksaw, hammer, pocket knife or knife blade.

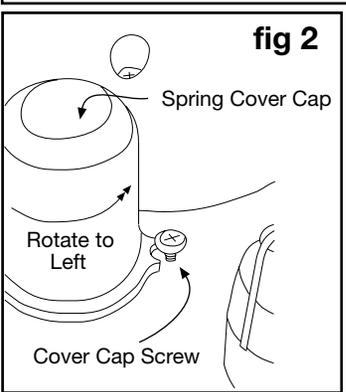
Router Raizer Parts Required: #1, #2, (two #5) #7, #12, #13 (three #15) # 18, #19, #21, #22, #23, #24, #26, #27, #28, #29, #40, #44, #45, #46, (#30,& #31 for router table installation).

For visual reference of parts installed. See fig 11 back of page before installation.

Note: before installation refer to page 14 lead screw update, check parts.

Preparing #1 Mainshaft To assure all ROUTER RAIZER components operate within design tolerances, #1 mainshaft must be cut to length. To retain and operate the collet lock this router will loose 1/2" unplunged height. Only deep mortising or countertop work may require this extra height, For all other router-table and handheld applications the router will perform perfectly. If the additional height is required, the collet lock must be engaged using the triton height knob.

1. Select #1 mainshaft cut to 14" overall length and slightly debur cut end. Set aside to install later.



Preparing Spring Cover Cap

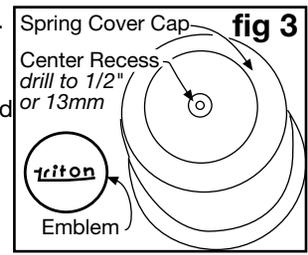
1. Use (fig 1) to locate the spring cover cap and rack and pinion or free plunge dial. Set the dial to rack and pinion and raise router to its highest un-plunged position, engage plunge lock.

2. The *spring cover cap* must be removed. Using (fig 2) loosen the *cover cap screw* until it does not touch the cap. **Do not remove the screw.** While applying downward pressure rotate cap to the left and lift slowly to remove.

3. Remove both the long plunge spring and clear plastic sleeve found under cap, set both aside to be reinstalled later.

4. Using (fig 3) use a pocket knife or fine blade to gently pry the adhesive backed Triton emblem from top of cap. Store the emblem.

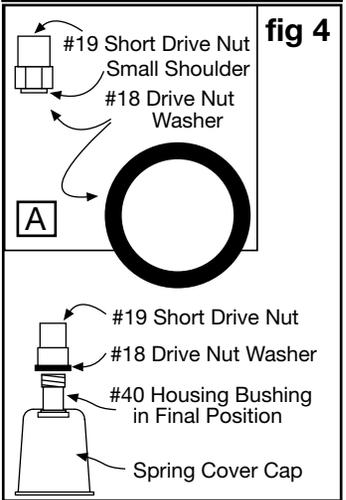
5. Select either a 1/2" or 13mm drill bit. Center drill bit on the center recess fig 3 and drill through the cap.



Installing Drive Parts In Spring Cover Cap

1. Select #40 housing bushing, #18 drive nut washer, #19 short drive nut. Using (fig 4), place #40 housing bushing threads up inside spring cover cap and push into drilled hole. Place #18 washer onto #40 housing bushing, then thread on #19 drive nut. Use wrench to securely tighten #19 drive nut onto #40 bushing. Set cover cap aside to install later.

NOTE: #18 washer must fit on small shoulder on #19 drive nut. Compare to inset A (fig 4)

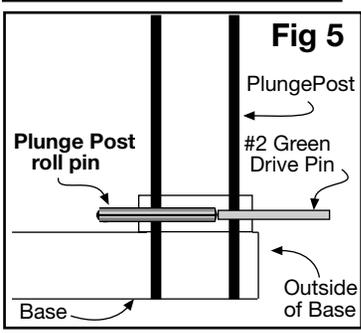


Removing Dust Shroud and Preparing Base

1. With router at highest un-plunged position, use (fig 1) remove the six phillips screws and two black knobs securing the clear plastic dust guard. Remove and set guard pieces aside.

2. Remove and set aside the black plastic subbase and screws.

3. The original one piece plunge post roll pin must be replaced with two separate roll pins. Select #2 green-drive pin and two #5 red roll pins. Using (fig 1) locate the plunge post roll pin (cover cap side). Using fig 5 align #2 green drive pin with original roll pin, using hammer drive #2 drive pin in until roll pin is removed.

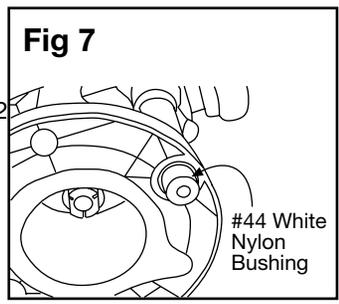
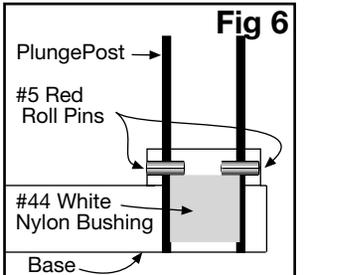


4. Select two #5 red roll pins. These replace the one piece roll pin previously removed. Using (fig 6). Insert one from each side of base casting. Tap in with hammer until flush.

NOTICE: #5 red roll pins may fit loosely. If you experience this problem, use pliers to hold the roll pin upright (vertically) on a metal surface. Place a small straight blade screwdriver on top of roll pin slot, tap screwdriver down into slot to slightly expand the size. #4 green roll pins may be used, but original roll pin hole must be enlarged to 5 mm.

TIP: Use needle nose pliers or tweezers to hold roll pins while driving into base.

5. Select #44 white nylon bushing. This bushing sizes the bottom of the plunge post to receive the #1 mainshaft and must be driven into contact red rollpins. Using (fig's 6 & 7) place bushing bevel first in the bottom of the plunge lock side post. Use hammer to start bushing into post, use #12 green nylon bushing as punch to finish installation. White bushing should be recessed into post.



Replacing Dust Shroud and Preparing Base

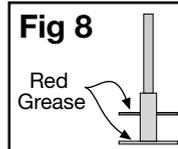
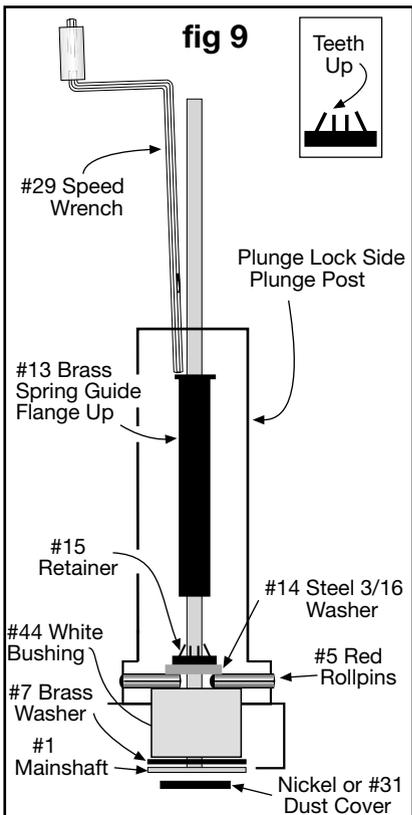
1. With router at highest un-plunged position, replace the clear plastic dust shroud, secure with six phillips screws and two black knobs.

2. Release plunge lock and lower router until collet touches table top. Engage plunge lock.

See other side to finish installation

Installing Mainshaft

1. Select #1 mainshaft, #7 brass washer, #14 steel 3/16" washer, one #15 retainer, #13 hollow spring guide, #29 speed wrench, red grease package.
2. Make sure #1 mainshaft has been cut to 14" overall length and debur cut end.
3. Using (fig 8) apply small amount of red grease on mainshaft head, then drop #7 brass washer down mainshaft apply grease on top of washer. Place #1 mainshaft with washer into #44 white bushing. Set base upright on bench.
4. With base upright on bench, slide either a nickel or #31 dust cover under the #1 mainshaft to assure it is tight against the white bushing. Using (fig 9) place #14 steel 3/16" washer on #1 mainshaft and drop down mainshaft into post. Place #15 retainer teeth up on top of mainshaft. Use #13 brass spring guide with flange up to start and push the retainer down the shaft and into the post. When brass flange meets top of post, set end of #29 speed wrench on brass flange and push into post until tight. **Remove and set aside #13 brass bushing.** Check end play of mainshaft, if there is movement up and down, retighten above step.

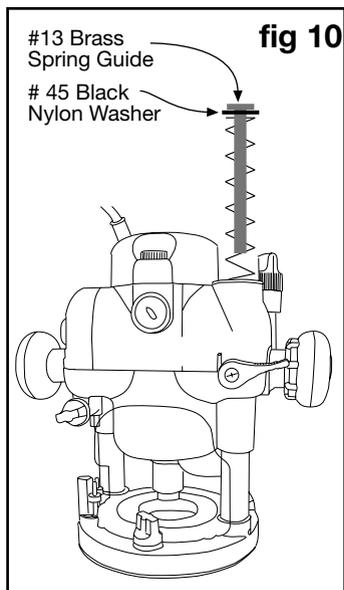
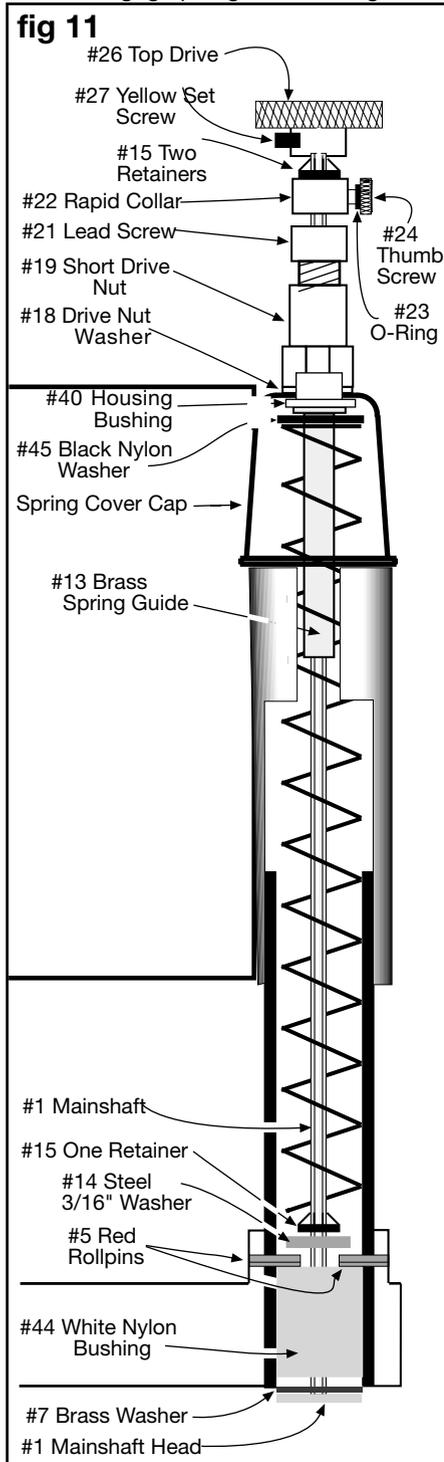


Reassembling Router (Plunge Spring Must be Installed)

1. Release plunge lock and raise router to highest un-plunged position, engage plunge lock. Using (fig 10) replace both the clear plastic sleeve and plunge spring. Slide #45 black nylon washer down #13 brass spring guide to the flange. Place the brass guide with washer into top of spring. #1 mainshaft should run through brass guide. Place the spring cover cap on top of the spring. Align the tab slightly left of the cap screw. Push the cover cap down and rotate to the right to engage lock in place. #1 mainshaft must extend through the short drive nut. Tighten the cover cap screw.
2. Select (Two #15 retainers) #21 lead screw, #22 rapid collar, #23 O-ring, #24 thumb screw, #26 top drive, #27-yellow set screw, #28 allen wrench, red grease. Using (fig 11) Place grease on threads of #21 lead screw, Place lead screw down #1 mainshaft and thread into #19 short-nut. Align hex on end of mainshaft through hex in lead screw, thread in until one inch of mainshaft extends above the head #21 lead screw. This may require plunging the router slightly.

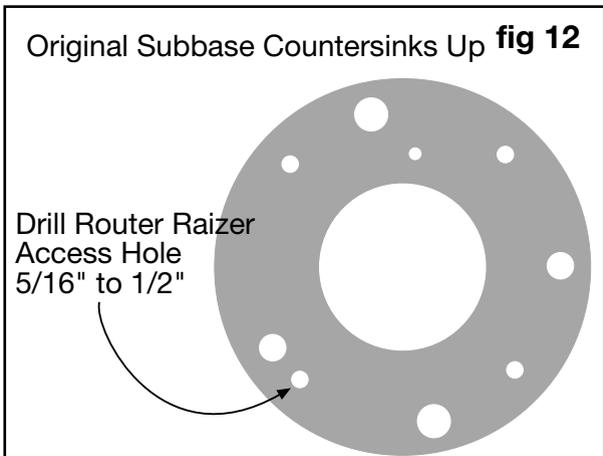
Tip: # 29 speed wrench can be inserted into top of lead screw or bottom of mainshaft to speed threading.

3. Press #23 O-ring onto #24 thumb screw shaft. Thread thumb screw into #22 rapid collar. Place rapid collar onto #1 mainshaft 1/2" from top of mainshaft to top of rapid collar and tighten (fig 9). Release plunge lock and slowly raise the router until lead screw contacts the rapid collar. If the collar moves, reset to 1/2". Place one #15 retainer teeth up on top of #1 mainshaft use #12 green nylon bushing to start and push #15 retainer into contact with collar, repeat with second #15 retainer push flush with first retainer. **Remove and store green bushing.** Place #26 top drive onto #1 mainshaft until it contacts retainer clip, Thread #27 yellow set screw into #26 top drive using #28 allen wrench and tighten.



Sub-base or Router Table Insert Installation

1. Use #46 locating pin to locate the Router Raizer access hole on the original subbase, optional template guide plate or router table. For detailed instructions see page 14.



2. See pages 15 & 16 for further instruction, #30 dust cover insert and #31 dust cover, are router table only. Drill a .500" hole through insert plate at the Raizer access point and press #30 in from top until flush. # 31 sets in #30 and is removed during adjustments with magnet on back edge of # 29 speed handle. These components keep dust from entering the Router Raizer hex drive.

Periodic inspection and re greasing of #21 lead screw is recommended.

Access Hole Locating Pin

After installing the Router Raizer use this pin to simplify locating the Router Raizer access hole required through the original subbase or router table.

NOTE. Read Router Raizer template instructions before using locating pin

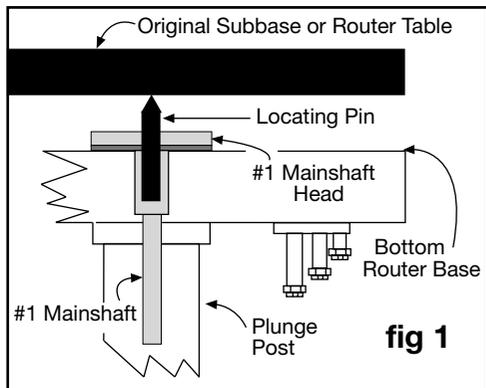
Locating Hole in Original Subbase

Using fig 1 support router upside down on bench and place locating pin into bottom of #1 mainshaft head. Secure subbase to router base gently tightening screws. Using a hammer gently tap the subbase over the pin. Remove subbase and drill hole on center punch mark using the Router Raizer template instructions.

Locating Hole in Router Table

If your router table is already drilled to mount the router, use above step using table or insert plate in place of original subbase.

If your router table or insert plate have not been drilled use the provided paper template or original subbase to first locate and drill the router mounting holes.



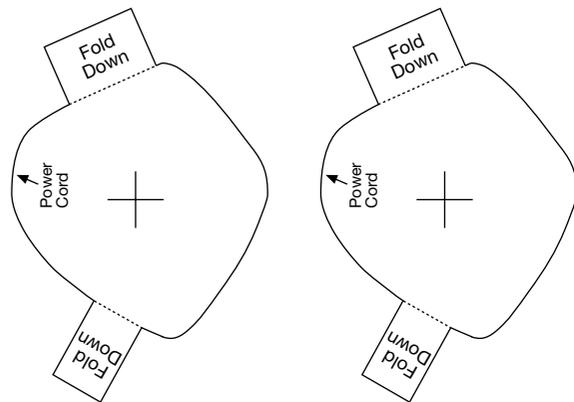
METRIC EQUIVILANTS FOR INTERNATIONAL CUSTOMERS

Note: The following metric drill bit or wrench sizes may be substituted for all operations other than drilling hole for #30 Dust Cover Insert.

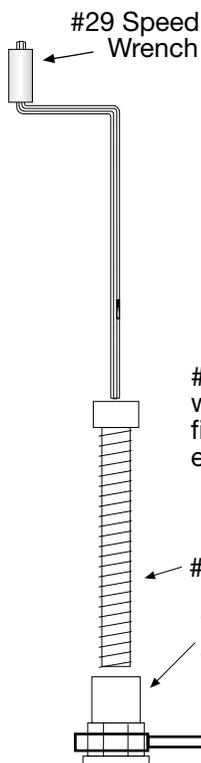
- 1/8" = 0.125" — — — 3.20mm = 0.126"
- 3/32" = 0.093 — — — 2.4mm = 0.094
- 5/32" = 0.156" — — — no metric equivalent, this hole must be drilled to 5/32"
- 7/32" = 0.218" — — - 5.5mm = 0.216"
- 5/16" = 0.312" — — - 8.0mm = 0.315
- 21/64" = 0.328" — — 8.3mm = 0.326" or 8.5mm = 0.334"
- 1/2" = 0.500" — — - 12.8mm = 0.503 or 13mm = 0.511
- 11/16" = 0.687" — — 17.5mm = 0.689" or 18mm = 0.708"
- 3/4" = 0.750" — — · 19.0mm = 0.748

30 Dust Cover Insert must be 0.500" use a 12.5mm bit and sand hole to fit cover. 12.5mm = 0.492"

Duplicate templates for Bosch 1619 EVS



21 Lead Screw Update



#21 lead screw, #19 short drive nut, #20 long drive nut are hardened parts. You may experience resistance when threading #21 lead screw into #19 short drive nut, or #20 long drive nut. This resistance is only the first 1/4" of the # 21 lead screw and once threaded in will not affect the Router Raizers performance. If you encounter this problem follow instructions below.

Caution: As these parts are hardened **Do Not Attempt To Retap These Threads With A Tap Or Die**

Place red grease onto threads of #21 lead screw. Place a 11/16" wrench on the #19 or #20 drive nut. Insert # 29 speed wrench into top of #21 lead screw. Use the speed wrench to thread #21 lead screw into drive nut until resistance is no longer felt.

Any further problems please call for assistance
1-866-266-1293

Templates

Individual templates are provided for locating router base, bolt patterns and the Router Raizer access hole. The templates locate holes on both the original subbase, and router table insert plates. **Caution:** Photocopying templates may result in reference marks not reproducing accurately. Place photocopy on original and hold up to window to view accuracy of registration.

Duplicating Templates

Additional templates available free off website www.routertechnologies.com (If website access is unavailable follow step below)

Duplicating the template allows original to be used multiple times. Place original template on a blank sheet of paper. lay both on a carpet floor. Place one straight pin through center crosslines, use second straight pin to pierce through remaining crosslines. Remove original and circle pin holes to be used.

Using Template

1. When using either the original or duplicate template, always double check before drilling. **If Template is used upside down, the Router Raizer access hole will be on the wrong side!**
2. To avoid placing the Router Raizer access hole under the fence, all templates have a router table fence reference line. When aligned to the back edge of the router table insert plate, or fence the router is offset placing the Router Raizer access hole in front of the fence.
3. To center template on a router table insert plate, align the center cross lines on the template to the center hole in the insert plate. **Measure the center hole in the router table top or insert plate. Center an inexpensive compass on the center crosshairs and transfer the circle to both sides of the template.** Tape the template to the insert. Make sure template is on correctly (see step above) drill holes.

Mounting original Subbase or Router Table Insert Plate

Due to variations in mounting subbase or table insert plate, please read instructions below and back of page before drilling any holes.

1. **Drilling Original Subbase.** Using (fig 2) align template mounting holes with the subbase holes. Mark the Router Raizer access point onto the subbase. Before drilling, place subbase on router base, check the Raizer access point is over the mainshaft head. When marked properly drill a 3/4" access hole through the subbase and install onto router.

Caution: The 3/4" Hole is Through the Original Subbase Only. Never Drill a 3/4" Hole in Any Router Table Insert Plate or Router Table Top.

On some routers the #1 mainshaft head may not be flush with the bottom of the router base. Shown fig 1.

To determine if mainshaft head is flush. sight, or lay a straight edge over the #1 mainshaft head. Shown fig 1. If head is below flush or flush with the base, proceed to step two below. If head is above the base proceed to back of page.

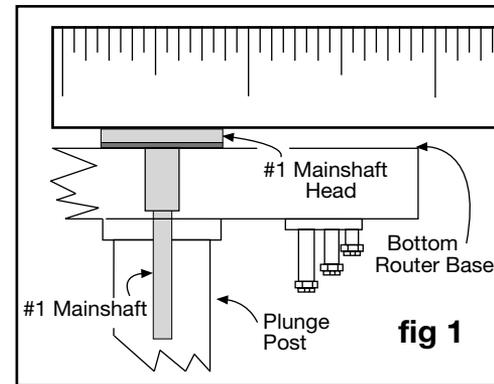


fig 1

Caution: Before drilling router table. Positioning template, place router under insert or table top and check Router Raizer access point, all hole locations, and possible router clearance problems.

2. **Drilling Top of Router Table Insert Plate.** Using (fig 3) Align template fence reference line with back edge of insert plate or fence. Place the template lettering up onto the insert or table top. Make sure router handles and controls are accessible and clear any obstacles. The template may be rotated to any position required, we recommend placing the Router Raizer access hole in front of the fence. When the template is positioned properly, center it to the insert hole by placing a compass on the template center cross lines. Rotate and size the compass until centered in insert hole. Center punch holes onto insert plate. recheck hole locations before drilling. Drill Router Raizer access hole .500" through insert. Drill mounting holes same as original subbase. See back of page for installing #30 dust cover insert and #31 dust cover into .500" Router Raizer access hole.

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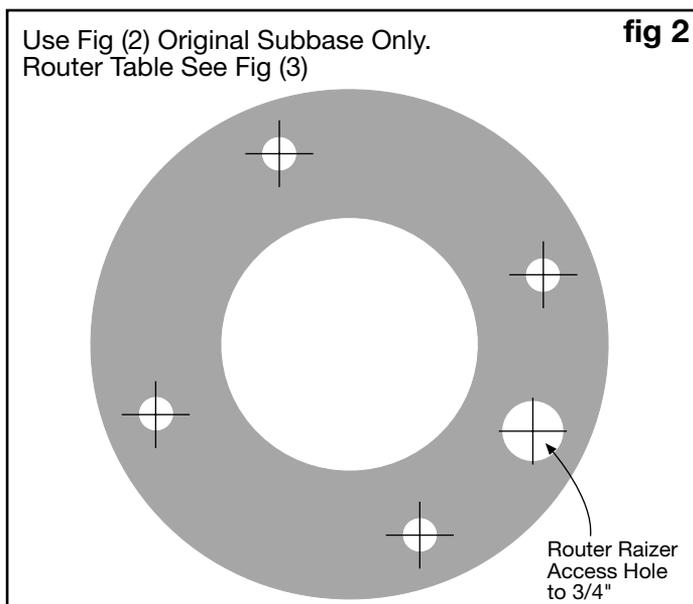


fig 2

Use Fig (2) Original Subbase Only.
Router Table See Fig (3)

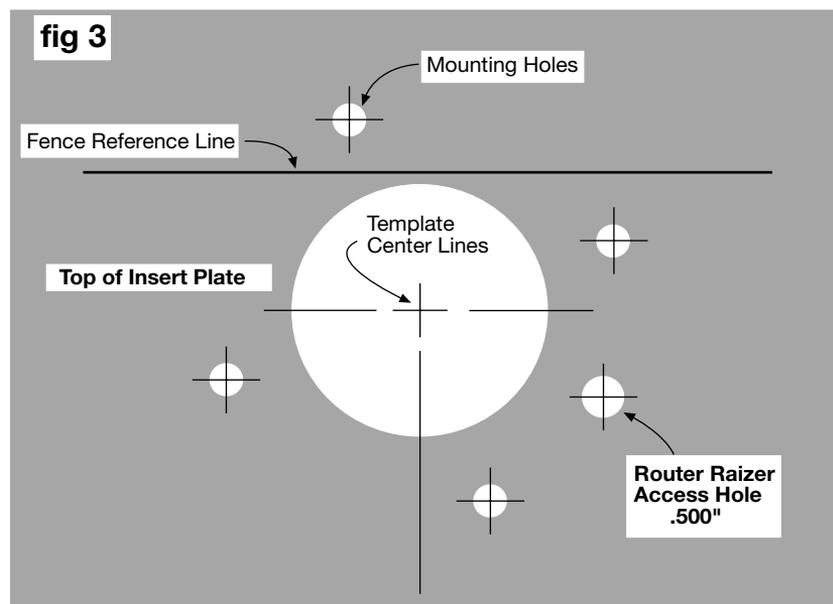
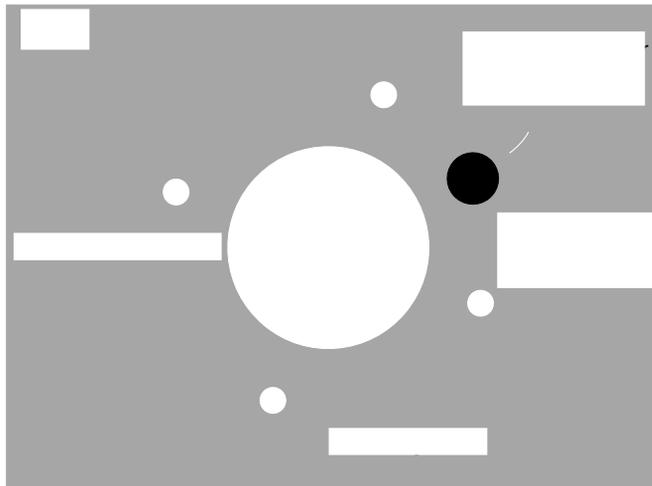
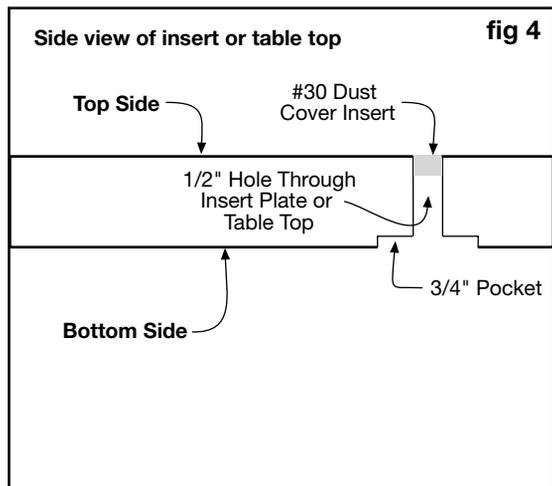


fig 3

If mainshaft head is not flush with the base, use step below or rubber spacer gasket for mounting to table insert or router table top.

Drilling Pocket in Back of Router Table Insert Plate. Boring a pocket on the backside of the table insert or router table top provides clearance for the mainshaft head to rotate. **Caution;** Do not drill pocket over 3/32" deep. **Note:** The pocket requires a 3/8" or thicker insert plate. If insert plate is thinner than 3/8" or steel, use the 8" X 8" rubber spacer gasket. See instructions below.

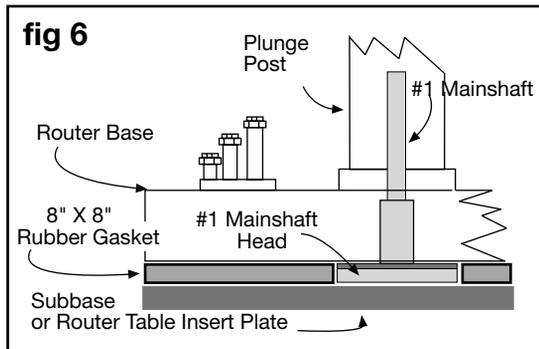
1. With template properly located on insert or table top, center punch on crosshairs all router mounting holes and the Router Raizer access. Using a 1/8" drill bit, drill the Router Raizer access hole through the insert or table top. Turn insert or table top over (fig 5) locate the 1/8" raizer access hole. Center a 3/4" spade or forsnor bit on the 1/8" hole and drill a pocket deep enough for the #1 mainshaft head to turn freely. Turn insert or table top over. Center a .500" drill bit on the 1/8" hole and drill completely throughto into the 3/4" pocket. Finish by drilling and countersinking remaining holes, and installing the dust cover insert. **See below for instructions.**
Caution: Do not drill pocket over 3/32" deep. #30 dust cover insert must be installed into top of .500" Raizer access hole. **See installing dust cover insert below.**



Using the 8" X 8" Rubber Gasket

The 8" X 8" rubber gasket is provided for spacing #1 mainshaft head.

1. The easiest way to prepare the gasket is to first drill the Router Raizer access hole through the **original subbase**. Place the rubber gasket on a scrap piece of wood. Align the pre-punched 3/4" gasket hole and the Raizer access hole in subbase. Using ink pen, transfer mounting hole locations to the gasket. Using a utility knife or razor blade, hold the subbase in position while cutting around inside and outside of the subbase Remove subbase and cut mounting holes. Using (fig 6) place the gasket between the router base and subbase or insert. **Tip:** mounting holes can be cut as square holes. If original subbase is unavailable the template may be used to cut the gasket.

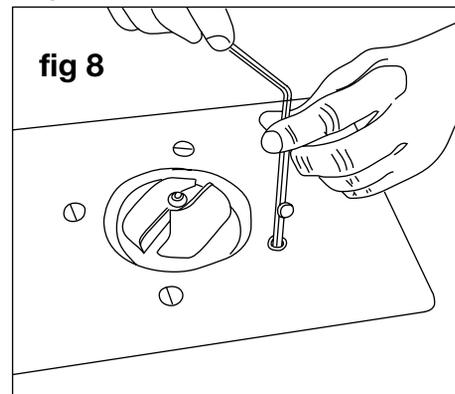
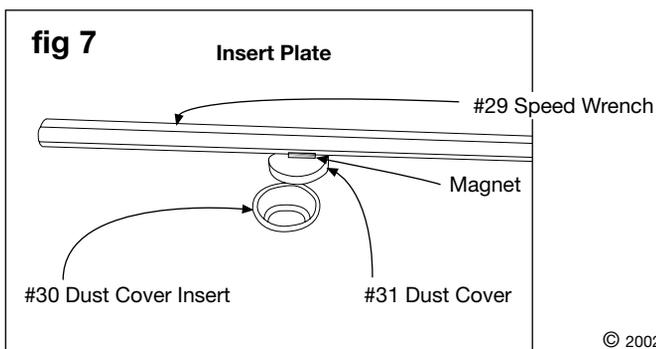


Installing the Dust Cover Insert

1. Using (fig 7) select #30 dust cover insert (1/2" dia, X 3/16" tall, turned aluminum ring) and #31 dust cover (3/8" dia. X 1/8 thick stamped steel plug) From top of insert plate, press #30 cover insert into the .500" Router Raizer access hole until flush.

Tip: If cover insert fits loosely, secure with drop of Super Glue® or Crazy Glue®.

2. Mount router to insert plate and install into table
3. Place #31 dust cover into #30 dust cover insert. Using (fig's 7 & 8) remove #30 dust cover with magnet on back of #29 speed wrench. With dust cover on speed wrench, insert wrench to make adjustments. To reinstall dust cover, place cover into insert and slide wrench away. **Caution: Remove dust cover with speed wrench before removing router from table or cleaning table with vacuum sweeper.**



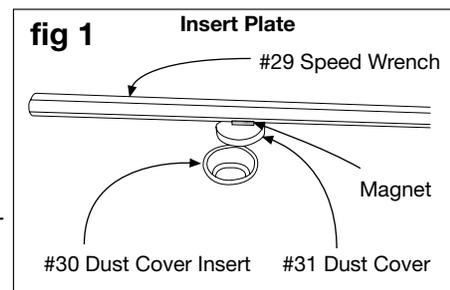
Caution: Always make sure router switch is in the off position, and tool is disconnected from power source when performing maintenance or making any adjustments to either the router or height adjustments to avoid accidental starting of tool which may result in personal injury.

Using in a Router Table

Dust Cover Insert and Dust Cover

The dust cover insert and dust cover allow easy adjustment access to the Router Raizer mainshaft and restricts dust and debris infiltration during use. A small magnet is recessed into speed wrench handle to remove and hold the dust cover during adjustments.

- 1. Removing dust cover:** Using (fig 1) place #29 speed wrench over #31 dust cover, lift speed-wrench to remove dust cover. Leave dust cover on wrench while making height adjustments.
- 2. Replacing dust cover:** Position speed wrench with dust cover over the insert, press cover into insert and swipe wrench away leaving the dust cover in the insert.
- 3.** Always remove #31 dust cover before removing router and insert from table. Or cleaning table with vacuum sweeper



Warning: Never remove the dust cover while the router is running. Always wait until the bit has stopped spinning.

Using Handheld

Caution: #22 rapid collar is for handheld operations only. For router table operation, lock #22 rapid collar in contact with #15 retainers.

Caution: Always make sure router switch is in the off position, and tool is disconnected from power source when performing maintenance or making any adjustments to either the router or height adjustments to avoid accidental starting of tool which may result in personal injury.

When used hand-held the hex shaped #1 mainshaft provides a constant engagement of the Router Raizer mechanism, allowing easy height adjustments while retaining original plunge capabilities and all other original functions of the router.

- 1.** Height adjustments can be made from either end of the router. To adjust from the base, engage #29 speed wrench into the head of #1 mainshaft. To adjust from the top, engage #29 speed wrench into the top of #26 top drive. The knurled #26 top drive also allows adjustments by hand,

The #24 thumb screw and #22 rapid collar allow positioning the cutter to height. bypassing multiple revolutions of the speed wrench

- 1.** Using (fig 2) Adjust #21 lead screw, leaving approximately 1/2" exposed threads. Plunge router by hand 1/8" past desired height, and secure plunge lock.
- 2.** Release rapid collar from position shown grey and slide down shaft to position shown black and lock in place.
- 3.** Release plunge lock. Using speed wrench or top knob decrease depth of cut to desired position and engage plunge lock.
- 4.** If #24 thumb screw will not provide enough pressure to secure #22 rapid collar, replace thumb screw with #25 optional black set screw and #28 allen wrench.

Caution: #22 rapid collar is not designed to maintain cutter height during routing operations. Always secure plunge lock before and during all routing operations.

Direction of Rotation for Adjustment

Adjustments from #26 top drive:

Clockwise rotation **Decreases** depth of cut. **Counterclockwise** rotation **Increases** depth of cut.

Adjustments from #1 Mainshaft Head :

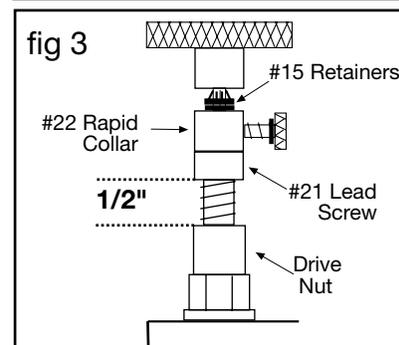
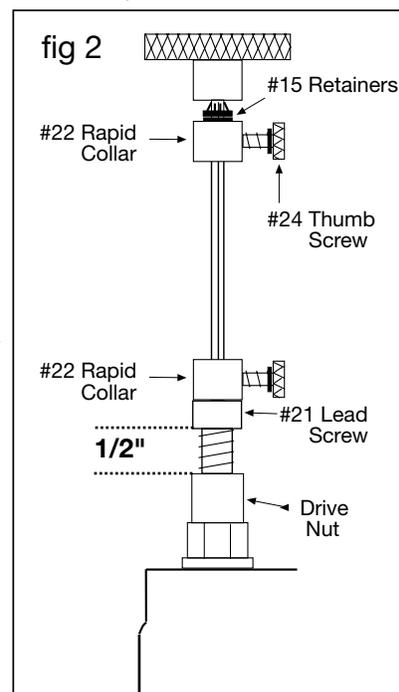
Clockwise rotation **Increases** depth of cut. **Counterclockwise** rotation **Decreases** depth of cut.

One complete rotation of the speedwrench, **raises** or **lowers** the bit 1/16"

Caution: Always secure plunge lock during routing operations.

Transporting or Storing Router

Using (fig 3) To prevent damage to the #1 mainshaft and #21 lead screw, adjust the lead screw leaving 1/2" threads exposed. Grasp router handles, release plunge lock, advance router up until lead screw rapid collar and retainers are all in contact, engage plunge lock.



This instruction manual covers several different makes and models of plunge routers. The instructions are written for a person with some mechanical ability. If you understand the parts and operation of a plunge router, installing the Router Raizer is not difficult. Before beginning installation compare the illustrations and photos to your router, original subbase or router table insert plate. Understand the location and function of both original and Router Raizer parts. Keep all spare parts, instruction manual and templates for future reference. The Router Raizer can be removed from any router and reinstalled into another.

Responsibility of the Owner

1. The responsibility of the owner is to follow the instructions, cautions, and warnings bellow and in the instructions
2. Know and understand the location of both original and Router Raizer parts.
3. Follow all the assembly instructions carefully.
4. Correctly adjust the components making sure the plunge action is smooth and plunge lock operates properly.
5. Carefully read and follow all notes, tips, cautions and warnings.
6. Make sure all operators of the Router Raizer know how to correctly use it.

Important: Read, understand and follow instructions to avoid personal injury.

Caution: Before and during installation of Router Raizer make sure power switch is in the off position and tool is disconnected from power source to avoid accidental starting of the tool which may result in personal injury.

Caution: Always make sure router power switch is in the off position and disconnected from power source before and during any adjustments to the router or Router Raizer.

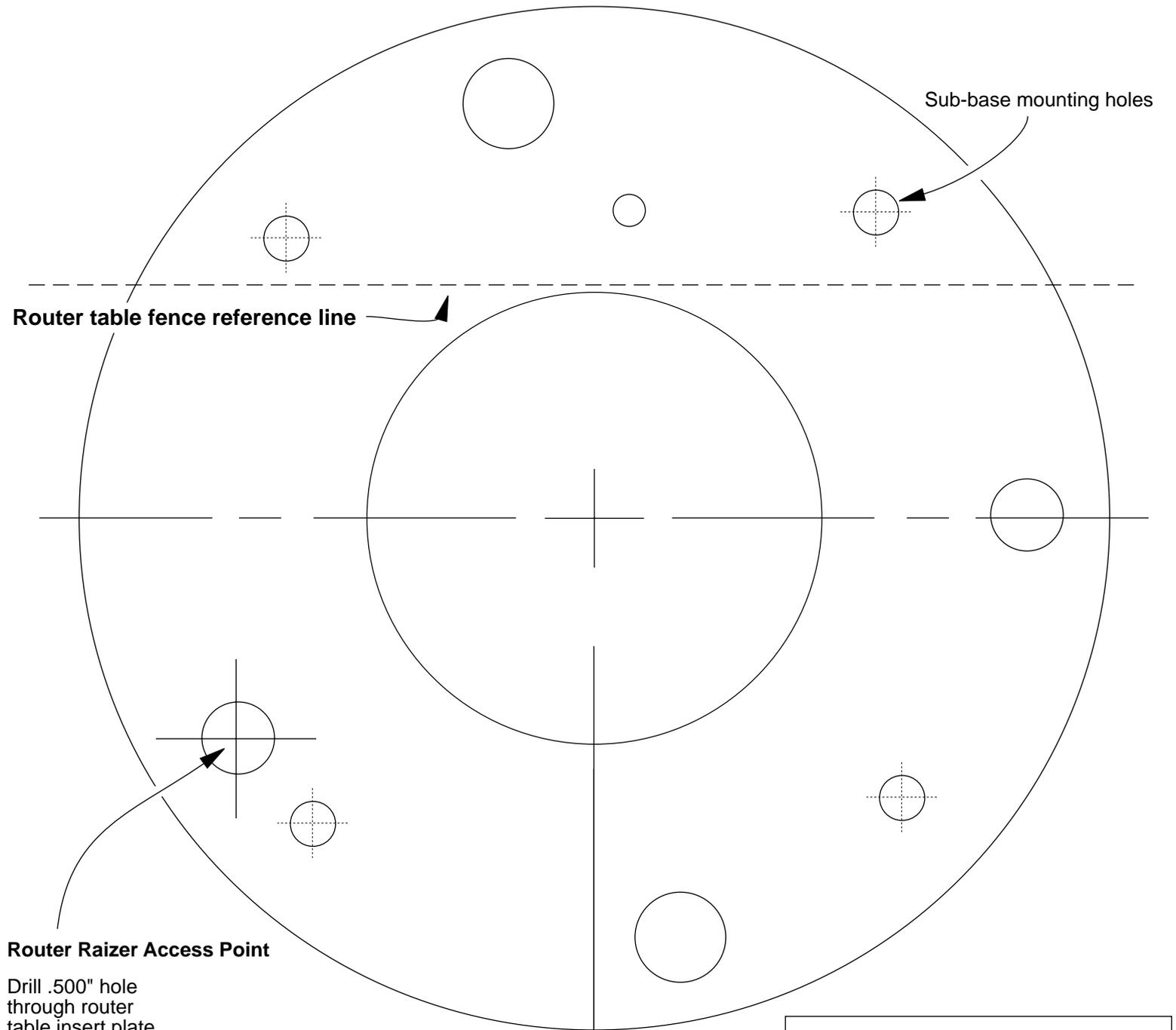
Warning: Never remove or reinstall #31 dust cover or make any depth of cut adjustments from either end of #1 mainshaft until router power switch is off, cutting tool has completely stopped rotating and tool is disconnected from power source.

Caution: Always secure plunge lock before and during routing operations.

ROUTER TECHNOLOGIES LIMITED TWO YEAR WARRANTY

Router Technologies warrants the Router Raizer to be free from defects in material and workmanship for a period of Two (2) Years from the original date of purchase to original owner. Our responsibility under this warranty is to replace, at no cost, any part which upon inspection at our facility is found to be defective in either material or workmanship. This warranty does not imply that the product is fit for a particular use or application, this warranty does not apply to parts which have been modified, altered, misused, damaged by improper storage. It also does not cover loss of parts during use, or mechanical adjustments which are covered in the instruction manual. In no event shall Router - Technologies be liable for any indirect, incidental or consequential damages from the sale or use of the product. This disclaimer applies both during and after the term of the warranty.

This warranty is your only remedy and parts are to be returned prepaid to our facility for inspection at Router Technologies, 2729 Delaware Ave, Des Moines, IA. 50317. This warranty gives you specific legal rights, and you may have other rights which may vary from state to state. Any legal actions must be brought in Polk County Iowa.

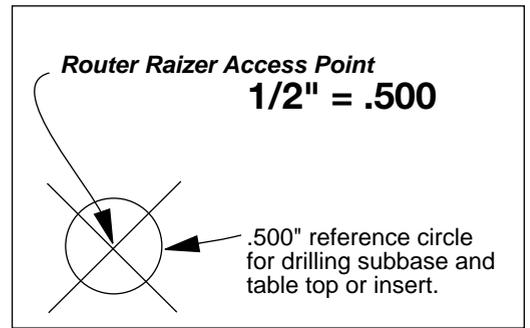


Router Raizer Access Point

Drill .500" hole
through router
table insert plate

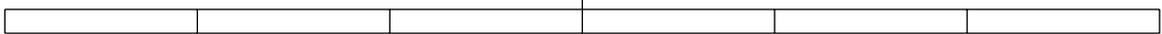
install #30 dust cover insert
into .500" hole and press flush
with top of insert plate

**NOTE: This hole must be drilled 1/2" or .500"
for #30 dust cover insert to fit properly.**



Use this 6" scale to check accuracy when copied

TRITON TRC 001



Note: Cross lines for locating and drilling holes are accurate. The illustration of subbase may vary slightly in size and design, but is accurate enough for cutting the rubber gasket if required.