



**INSTRUCTIONS & PARTS LIST FOR  
1982A ROUTER, 1/4" COLLET AND  
RT1982, 3/8" COLLET & RT1983, 1/2" COLLET ROUTERS  
(SERIAL "D")**

Form Z811  
Date 2012August7/B  
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**Read and understand these instructions before operating this tool.**

**SAVE THESE INSTRUCTIONS!**

**⚠ WARNING**



When used improperly power tools can create hazardous situations.  
**Everyone using, maintaining, changing accessories or working near this tool must read, understand and follow these Safety Instructions!**  
*Improperly used power tools can cause injury or death.*

**ROUTER SAFETY**



Routers can cause flying particles.

**Proper eye protection must be worn at all times by tool user and bystanders.**

*Flying particles can cause eye injury.*



Power tools generate noise.

**Ear protection must be worn when tool noise level exceeds 85 dBA. We also recommend that ear protection be worn when the tool noise level is below 85 dBA.**

*Prolonged exposure to noise can cause hearing loss.*



Power tools vibrate.

**Excessive vibration can cause injury. If numbness, tingling, pain or whitening of the skin occurs, stop using tool and consult a physician.**

*Prolonged exposure to vibration can cause injury.*



Rotating router bits can cause cuts and abrasions.

**Keep hands and other body parts away from router bits to prevent cutting or pinching. Wear protective clothing and gloves to protect hands.**

*Contact with router bits can cause injury.*



Routers present a risk of entanglement.

**Keep loose hair away from power tools and accessories. Keep hands away from moving parts of the tool and accessories. Do not wear jewelry, loose clothing, or neckwear around power tools. Keep work area clear of cleaning rags and all items that could become entangled with the tool.**

*Entanglements can cause injuries.*



Router operations creates dust.

**Do not breathe dust. Use approved mask.**

*Breathing dust can cause injury.*



This tool is not insulated for contact with electric power sources.

**Do not use near live electric circuits. When drilling into walls, be aware that they may have hidden electric wires.**

*Electric shock can cause injury.*



This tool is not intended for use in a flammable or explosive atmosphere.

**Do not use this tool in a flammable or explosive atmosphere.**

*Explosions and fire can cause injury.*



Excessive overhang reduces the safe operating speed of router bits, causes shafts to bend.

**Keep overhang to a minimum.**

*Bent shafts can cause injury.*



Routers can generate unexpected movement.

**Keep a firm grip on the tool at all times. Be sure your body position allows you to have control of the tool at all times. Make sure your footing is secure. When possible, secure the work piece in a vice or with clamps. Hold tool with both hands.**

*Unexpected tool movement can cause injury.*



Using excessive force on a tool makes it hard to control.

**Do not force tool.**

*Hard to control tool can cause injury.*



Poorly maintained and lubricated tools can fail unexpectedly.

**Keep tool properly lubricated and in good repair at all times. Use only Sioux Air Motor Oil No. 288. See the tool's information sheet to find out what other greases and oils to use. Do not drop the end of the hose on the floor where it will pick up dirt and transport it into the tool. See information sheet for any additional maintenance requirements.**

*Unexpected tool failures can cause injury.*



Collets, nuts and related equipment in poor shape or not the proper ones for the router bit used can cause tool to malfunction.

**Be certain that all collets, nuts and related equipment are in good shape, the proper ones for the type and size of bit being used, and are securely fastened. Tighten collet securely. Match bit shaft diameter to collet.**

*Router bits that malfunction and spin off can cause injury.*



Air hoses can come loose from power tools and whip.

**Inspect and do not use tools with loose or damaged air hoses or fittings.**

*Whipping air hoses can cause injury.*



Air hoses that are not oil resistant or are not rated for the working pressure can burst.

**Make sure that all air hoses are oil resistant and rated for the working pressure.**

*Air hoses that burst can cause injury.*



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Tools not operated at proper air pressure can operate erratically.

**Do not exceed a maximum air pressure of 90 psig/6.2 bar or as stated on the tool's nameplate or operating instructions. Use an air regulator to maintain proper air pressure.**

*Erratic operation in power tools can cause injury.*



Improperly repaired tools perform unpredictably.

**Repair tools at an Authorized Sioux Service Center.**

*Tools that perform unpredictably can cause injury.*



Tools left connected to the air supply can start unexpectedly.

**Always remove tool from air supply and activate trigger to bleed air line before making any adjustments, changing accessories, or doing any maintenance or service on tool. Make it a habit to check to see that all adjusting keys and wrenches have been removed from tool before turning it on.**

*Tools starting unexpectedly and flying keys and wrenches can cause injury.*



Working in poorly lit areas makes it hard to see hazards.

**Keep work area well lit.**

*Poorly lit work areas can cause injury.*



Children are attracted to work areas.

**Keep children away. All visitors must keep a safe distance away from work area.**

*Children in work areas can be injured.*



Unauthorized or untrained personnel can misuse unattended tools.

**Store idle tools in a dry, high or locked-up place, out of the reach of children.**

*Misused tools can cause injury.*



Tools with the actuator left in the "ON" position when an unexpected air pressure loss occurs can start unexpectedly when the air pressure is restored.

**Release the actuator if an unexpected loss of air pressure occurs.**

*Unexpected tool starts can cause injury.*



Tools with the actuator left in the "on" position can cause unexpected starts when the tool is connected to the air supply.

**Be sure actuator is off before hooking up air.**

*Unexpected starts can cause injury.*



Routers may coast for a short time after the trigger is released.

**Be sure tool has come to a complete stop before setting it aside.**

*Routers that do not come to a complete stop before setting aside can cause injury.*



The use of any accessory with this tool not provided or specified by Sioux Tools can perform unpredictably.

**Use only accessories provided or specified by Sioux Tools.**

*Tools that perform unpredictably can cause injury.*



**When disposing of a tool, do it in a way that does not harm personnel or the environment.**

#### INTENDED USE

This tool is intended for use with router bits for precision material removal.

#### AIR SUPPLY

The efficiency and life of this tool depend on the proper supply of clean, dry air at a maximum of 90 PSI. The use of an air line filter, pressure regulator, and lubricator is recommended.

Before connecting to tools, blow out the air line to remove water and dirt that may have accumulated.

#### LUBRICATION

For maximum performance and tool life, an air line lubricator, set to deliver 2 drops per minute, is recommended. SIOUX No. 288 Air Motor Oil is recommended.

If an airline lubrication is not used, it is recommended that the tool be oiled daily before use to improve performance. Add 2-4 drops of air motor oil and run the tool for 10-20 seconds to distribute oil through the tool.

#### MAINTENANCE

Water, dust and other airline contaminants can cause rust and vane sticking. For long periods between tool use, flush the tool with a few drops of oil and run for 10 seconds. This will help remove contaminants and reduce the formation of rust.

#### HOSE AND HOSE CONNECTOR

A special 3/8 ID hose is provided. It is more flexible than comparable rubber hoses and has a swivel fitting at the tool end. If an extremely long extension hose is required (over 25 feet), use 1/2 ID hose with 3/8 quick couplings.

#### OPERATION

Tool is turned on by rotating black knurled ring in a clockwise direction (clockwise when viewing tool from above when tool is resting on flat surface of base).

#### SPEED CONTROL

Speed of the tool may be adjusted by turning the slotted speed control which is accessible thru a hole in the valve operator ring.

### ⚠ WARNING



**Disconnect tool from air supply before installing or removing router bits or making any adjustments!**

#### INSTALLING ROUTER BITS

Insert the router bit into the collet. Make sure the bit shank and the collet size match. Do not allow the bit to extend beyond the collet an excessive distance.

Hold the collet body with a 7/8" wrench and the collet nut with a 1-1/16" wrench.

Turn the collet nut to the right and firmly tighten the collet on to the bit.

#### REMOVING ROUTER BITS

To remove the router bit, hold the collet body with a 7/8" wrench and the collet nut with a 1-1/16" wrench.

Turn the collet nut to the left and loosen the collet.

Remove the router bit.

**TO ADJUST DEPTH**

**NOTE:** All depth adjustments must be made with the base clamp lever released.

1. Hold the tool in a horizontal position with the base clamp lever facing you.
2. Open the base clamp lever to release the motor.

**3. COARSE ADJUSTMENT:**

To make a large depth adjustment, depress coarse adjustment release lever and raise or lower to desired depth. There are three notches in the motor housing which are spaced 1/2" to facilitate this adjustment.

**4. FINE DEPTH ADJUSTMENT:**

To use the fine adjustment feature, turn the fine adjustment knob clockwise to lower the router bit or counter-clockwise to raise it.

**NOTE:** Be sure coarse adjustment lever is engaged in one of the coarse adjustment notches before making a fine adjustment.

To allow precise settings, the indicator ring is graduated in English and Metric increments.

(Note: one full turn of fine adjustment knob = 1/16" or approximately 1.5 mm. The fine adjustment mechanism has a total adjustment range of 7/8" (23 mm). Each cast indicator mark next to coarse adjustment lever is equal to 1/8".

5. After making depth adjustments, re-clamp the motor.

The indicator ring may be reset to zero without moving the fine adjustment knob, to allow the user to begin the adjustment from any reference point desired.

**TO CLAMP MOTOR**

When final coarse and fine adjustments have been made, fasten the base clamp lever to secure adjustments. (If additional clamping force is desired: using a 10 mm wrench, rotate clamp nut clockwise SLIGHTLY (1/8 turn or less), then test clamp. Do not overtighten.)

**PARTS LIST FOR  
1982A ROUTER, 1/4" COLLET AND  
RT1982, 3/8" COLLET & RT1983, 1/2" COLLET ROUTERS  
(SERIAL "D")**

\*Order Quantity As Required  
FURNISH CATALOG, SERIAL, AND  
MODEL NUMBER  
WHEN ORDERING PARTS

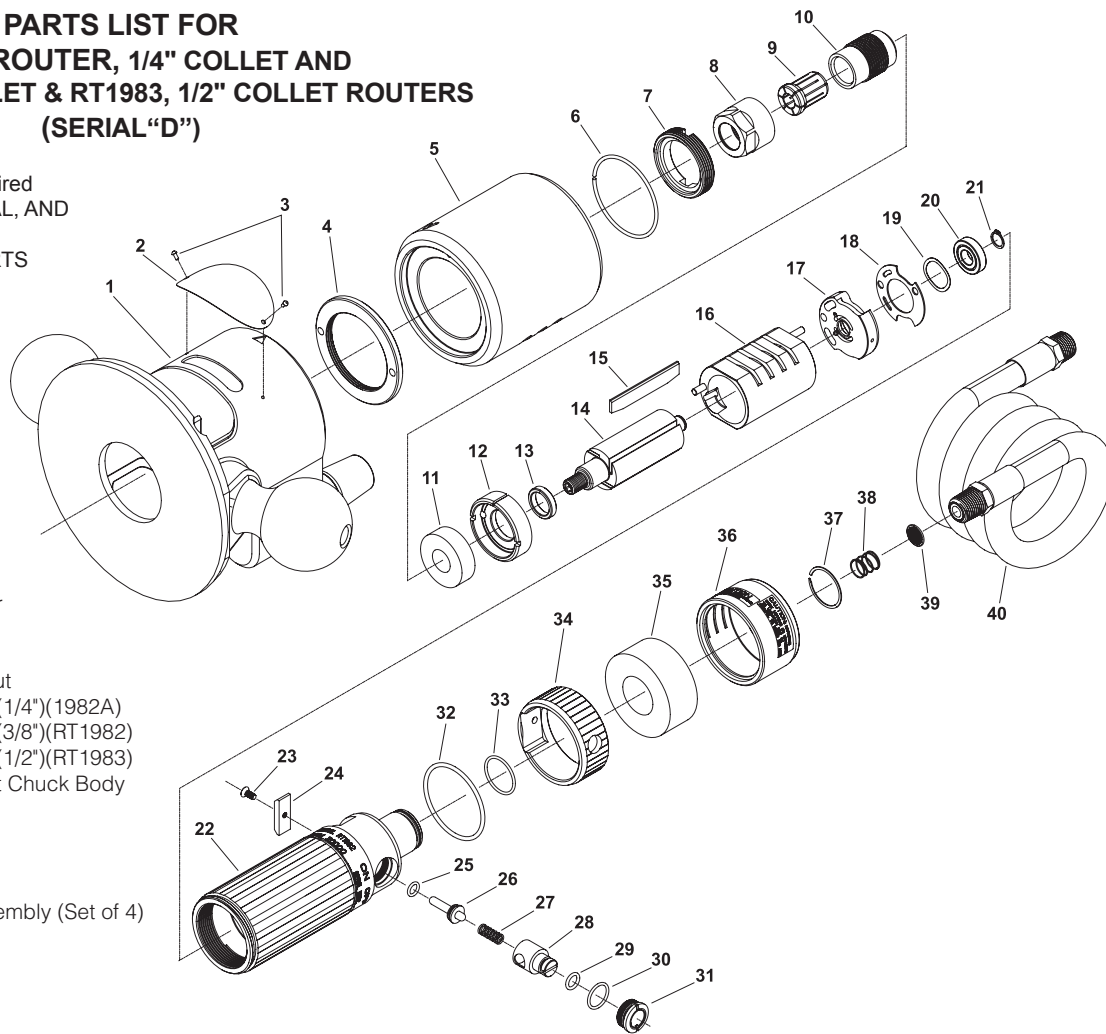


Fig. No.	Part No.	Description
1.	74215	Router Base
2.	74220	Name Plate
3.	09954	Rivet (2)*
4.	54671	Spanner Nut
5.	74216	6" Base Adaptor
6.	21801	Retaining Ring
7.	54264	Retainer
8.	21138	Erickson Locknut
9.	21126B	Erickson Collet (1/4")(1982A)
	21125	Erickson Collet (3/8")(RT1982)
	21124	Erickson Collet (1/2")(RT1983)
10.	21135	Erickson Collect Chuck Body
11.	10940	Ball Bearing
12.	13316	Front End Plate
13.	54866	Rotor Spacer
14.	54865	Rotor
15.	53363	Rotor Vane Assembly (Set of 4)
16.	44869	Cylinder
17.	13227	Rear End Plate
18.	14794	Gasket
19.	41226	Wave Washer
20.	10241	Ball Bearing
21.	21534	Retaining Ring
22.	53474	Router Housing Assembly (Incl's Figs 32 & 33)
23.	06198	ScrewOval Hd. C'sunk (#6-32 x 5/16")
24.	54274	Cam
25.	14291	O-Ring
26.	53360	Valve
27.	21315	Spring
28.	53361	Speed Control
29.	14311	O-Ring
30.	14378	O-Ring
31.	53362	Retainer
32.	14336	O-Ring
33.	14391	O-Ring
34.	54273	Valve Operator

Fig. No.	Part No.	Description
35.	14114	Silencer Pad
36.	54265	Silencer
37.	21776	Retaining Ring
38.	21385	Spring
39.	30462	Screen
40.	53370	Hose Assembly (6' Long)
Not Shown		
	25480	Wrench (7/8" Opening)
	40149	Wrench (1-1/16" Opening)
	SP74215	Router Base Assembly (Includes figures 1-3, 5)



**⚠ 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.

**⚠ ADVERTENCIA**



El polvo generado al lijar, aserrar, afilar, taladrar y realizar otras tareas de construcción contiene sustancias químicas que podrían causar cáncer, malformaciones congénitas y otras alteraciones del aparato reproductor.



Snap-on Power Tools, Inc.

**Z811\_revB where used list**

1982A	AIR ROUTER 1/4IN COLLET (LA
RT1982	AIR ROUTER 3/8IN COLLET LA
RT1983	AIR ROUTER 1/2IN COLLET LA