

B.O.S.S.

**Bench Oscillating Spindle Sander
(Model 31-780)**

INSTRUCTION MANUAL



Shown with accessory 50-780 stand

PART NO. 902123 - 04-30-01
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ESPAÑOL: PÁGINA 11

SAFETY RULES

Woodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, certain hazards are involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment (guards, push sticks, hold-downs, featherboards, goggles, dust masks and hearing protection) can reduce your potential for injury. However, the best guard is no protection against poor judgment, carelessness or inattention. Always use common sense and exercise caution in the workshop. If a procedure feels dangerous, don't try it. Use an alternative procedure that is safer. **REMEMBER:** Your personal safety is your responsibility.

This machine was designed for certain applications only. **DO NOT** be modify and/or use it for any application other than that for which it was designed. If you have any questions relative to a particular application, **DO NOT** use the machine until you have first contacted Delta to determine if it can or should be performed on the product.

**Technical Service Manager
Delta Machinery
4825 Highway 45 North
Jackson, TN 38305**

(IN CANADA: 505 SOUTHGATE DRIVE, GUELPH, ONTARIO N1H 6M7)



WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY.

1. **FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE TOOL.** Learn the tool's application and limitations as well as the specific hazards peculiar to it.

2. **KEEP GUARDS IN PLACE** and in working order.

3. **ALWAYS WEAR EYE PROTECTION.**

4. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it "on".

5. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.

6. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well-lighted.

7. **KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance from work area.

8. **MAKE WORKSHOP CHILDPROOF** – with padlocks, master switches, or by removing starter keys.

9. **DON'T FORCE TOOL.** It will do the job better and be safer at the rate for which it was designed.

10. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.

11. **WEAR PROPER APPAREL.** No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

12. **ALWAYS USE SAFETY GLASSES.** Wear safety glasses. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Also use face or dust mask if cutting operation is dusty. These safety glasses must conform to ANSI Z87.1 requirements. Note: Approved glasses have Z87 printed or stamped on them.

13. **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.

14. **DON'T OVERREACH.** Keep proper footing and balance at all times.

15. **MAINTAIN TOOLS IN TOP CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

16. **DISCONNECT TOOLS** before servicing and when changing accessories such as blades, bits, cutters, etc.

17. **USE RECOMMENDED ACCESSORIES.** The use of accessories and attachments not recommended by Delta may cause hazards or risk of injury to persons.

18. **IMPORTANT: When the tool is not in use, the switch should be locked in the "OFF" position to prevent unauthorized use. REDUCE THE RISK OF UNINTENTIONAL STARTING.**

19. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

20. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

21. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

22. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.

23. **DRUGS, ALCOHOL, MEDICATION.** Do not operate tool while under the influence of drugs, alcohol or any medication.

24. **MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY** while motor is being mounted, connected or re-connected.

25. **THE DUST GENERATED** by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.



26. 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. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

**SAVE THESE INSTRUCTIONS.
Refer to them often
and use them to instruct others.**

ADDITIONAL SAFETY RULES FOR OSCILLATING SPINDLE SANDERS



1. **WARNING: DO NOT** operate this tool until it is completely assembled and installed according to the instructions.

2. **IF YOU ARE NOT** thoroughly familiar with the operation of the tool, obtain advice from your supervisor, instructor or other qualified person.



3. **WARNING: USE FACE OR DUST MASK.** The dust generated by certain woods and wood products can be injurious to your health. **ALWAYS** operate machinery in well-ventilated areas and provide for proper dust removal. **USE** wood dust collection systems whenever possible.

4. **KEEP** fingers away from rotating sanding drum.

5. **MAKE SURE** sanding drum is not damaged and is properly secured on the spindle before operating.

6. **NEVER** perform layout, assembly or set-up work on the table while the sander is operating.

7. **MAKE SURE** workpiece is clear of sanding drum before turning unit on.

8. **KEEP WORK AREA CLEAN.** Cluttered areas can create slipping or tripping hazards.

9. **DON'T FORCE TOOL.** It will do the job better and be safer at the rate for which it was designed.

10. **NEVER** use machine for wet sanding which can create hazard of electrical shock.

11. **KEEP TABLE INSERT IN PLACE.** Use correctly sized table insert for each sanding sleeve. Maintain minimum table opening to keep fingers from being pinched or workpiece being pulled down.

12. **DO NOT** sand near flammable liquids, vapors, or gases.

13. **USE** sander on a solid supporting surface where room for handling and supporting workpiece is plentiful.

14. **WHEN** installing sanding drums, washers, etc., be sure they are tight.

15. **ALWAYS** feed workpiece against the direction of the sanding drum rotation.

16. **CLEAR** all debris from table before sanding the workpiece.

17. **MAKE CERTAIN** that workpiece is properly supported. Use extra caution when sanding small pieces.

18. **DO NOT** use this sander to sand pieces too small to be held by hand.

19. **PROTECT YOUR EARS.** Wear proper hearing protection.

20. **AFTER** turning off power switch, disconnect tool from power source and wait for spindle to stop before servicing, adjusting or changing spindles.

21. **ADDITIONAL INFORMATION** regarding the safe and proper operation of this product is available from the National Safety Council, 1121 Spring Lake Drive, Itasca, IL 60143-3201, in the Accident Prevention manual for Industrial Operations and also in the Safety Data Sheets provided by the NSC. Please also refer to the American National Standards Institute ANSI 01.1 Safety Requirements for Woodworking Machinery and the U.S. Department of Labor OSHA 1910.213 Regulations.

UNPACKING AND CLEANING

Carefully unpack the tool and all loose items from the shipping container(s). Remove the protective coating from all unpainted surfaces. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline or lacquer thinner for this purpose). After cleaning, cover the unpainted surfaces with a good quality household floor paste wax.

ASSEMBLY INSTRUCTIONS



WARNING: FOR YOUR OWN SAFETY, DO NOT CONNECT THE SANDER TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU HAVE READ AND UNDERSTOOD THE ENTIRE OWNERS MANUAL. NOTE: This manual contains instructions for assembling the accessory Model 50-780 steel stand. If the stand was not purchased with the machine, place the machine on a firm supporting surface and proceed with instructions for "ASSEMBLING SPINDLE ADAPTER".

1. Bench Oscillating Spindle Sander
2. Spindle Adapter
3. 1" I.D. Table Insert
4. 1-3/4" O.D. Drum Washer
5. Arbor Screw
6. 3/4" Sanding Drum & 3/4" Abrasive Sleeve
7. 3/16" Allen Wrench
8. 1/2" Socket Wrench
9. Dust Bag

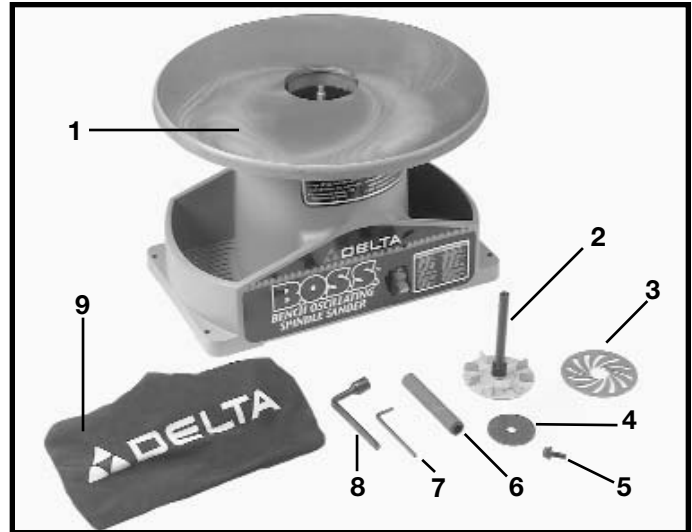


Fig. 2

- A. Four Legs - 27-1/2" long
- B. Two Upper Front and Rear Braces - 11-1/2" long
- C. Two Upper Side Braces - 21-5/16" long
- D. Two Lower Front and Rear Braces - 17-1/8" long
- E. Two Lower Side Braces - 26-5/8" long
- F. M8 Hex Nuts - (36)
- G. 3/8" Flat Washers - (40)
- H. M8 x 20mm Carriage Bolts - (32)
- I. M8 x 45mm Hex Head Screws (4)
- J. Plastic Feet (4)

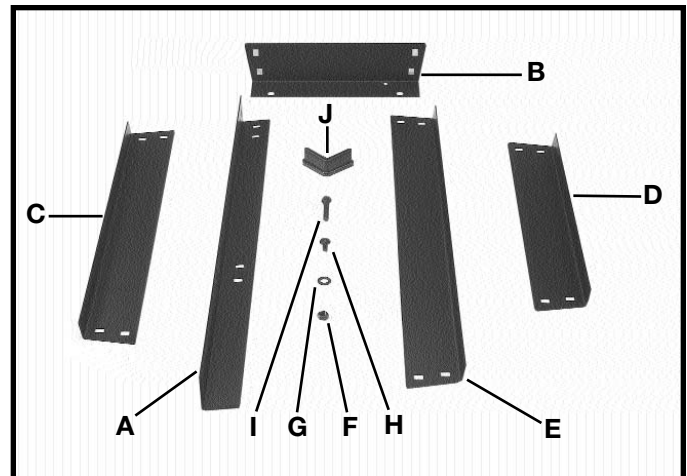


Fig. 3

ASSEMBLING OPTIONAL ACCESSORY STAND

1. Assemble the 50-780 stand (Fig. 4) using the 32 carriage bolts, flat washers and nuts supplied. The two 11-1/2" long upper braces (A); 21-5/16" long upper braces (B); 17-1/8" long lower braces (C); and 26-5/8" long lower braces (D) should be fastened to the four 27-1/2" long legs (E). **IMPORTANT: The top lips of the upper braces (A) should be over the top lips of upper braces (B).**

2. Attach a plastic foot (F) Fig. 4, to the bottom of each leg (E).

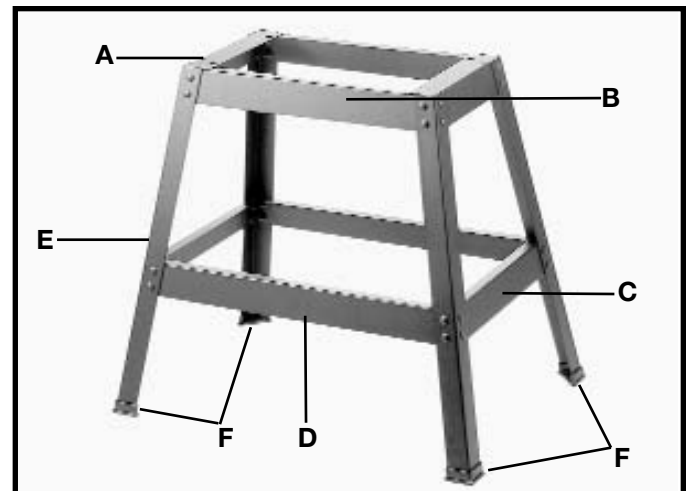


Fig. 4

ATTACHING SPINDLE ADAPTER

1. Carefully turn the machine upside down. Place it on a clean, firm supporting surface.
2. Use a flat head screwdriver or similar device to remove the plug (A) Fig. 5, from the bottom of the machine to gain access to socket head screw (not shown).
3. Carefully place the machine on its side (Fig. 6). Attach the spindle adapter (B) Fig. 6, to the motor shaft (C), by turning the spindle adapter counterclockwise on the shaft. **NOTE:** Motor shaft has a left-hand thread.
4. Place a 7/16" open end wrench (D) Fig. 7 (not supplied), on the flats of spindle adapter (B). Insert 3/16" Allen wrench (E) Fig. 8 (supplied), into socket head screw located where the plug (A) was removed in **STEP 2**.
5. While holding Allen wrench (E) Fig. 8, to keep motor shaft from turning, turn wrench (D) counterclockwise and fasten spindle adapter onto motor shaft.
6. Install plug (A) Fig. 5 that was removed in **STEP 2**.

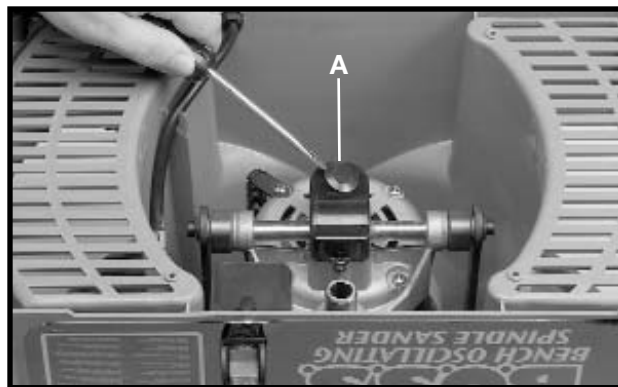


Fig. 5

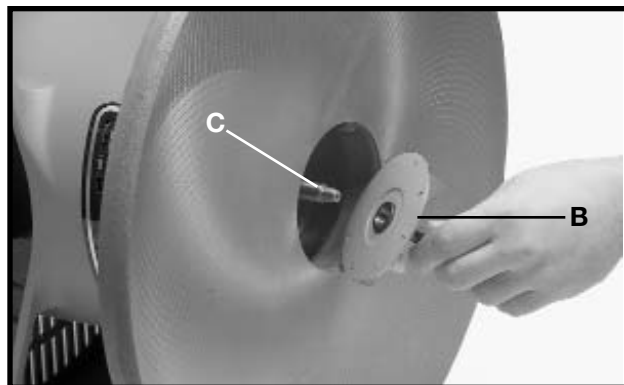


Fig. 6



Fig. 7

ATTACHING SANDER TO ACCESSORY 50-780 STAND

To attach the tool to the optional accessory 50-780 stand, carefully place the sander on the stand. Align the four holes on the top of the stand with the four mounting holes at the base of sander (A) (three of which are shown). Fasten the sander to the stand with four M8 x 45mm hex head screws, eight flat washers and four hex nuts, (all supplied).

To use the sander without the stand, please refer to the section **"FASTENING SANDER TO A SUPPORTING SURFACE"**.



Fig. 9



Fig. 8

ASSEMBLING SANDING DRUM, ABRASIVE SLEEVE AND TABLE INSERT

1. Place 1-3/4" drum washer (A) Fig. 10, on the spindle adapter (B).
2. Slide the abrasive sleeve (C) Fig. 10 over the sanding drum (D), and attach the sanding drum (D) Fig. 11, with the sleeve to the spindle adapter. Fasten with a 5/16" screw (E) using the socket wrench (F) supplied. **NOTE:** The screw (E) is a left-hand thread.

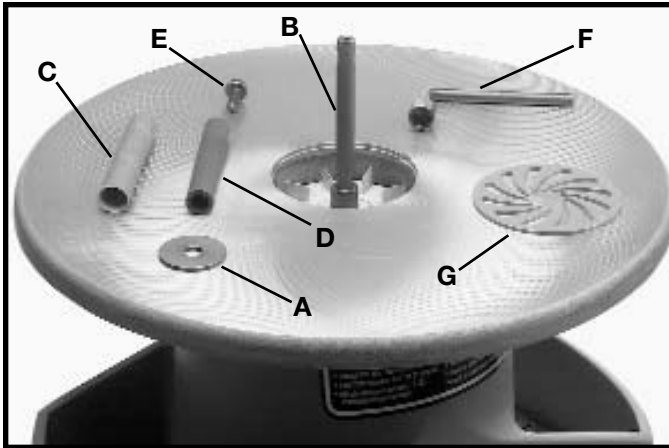


Fig. 10

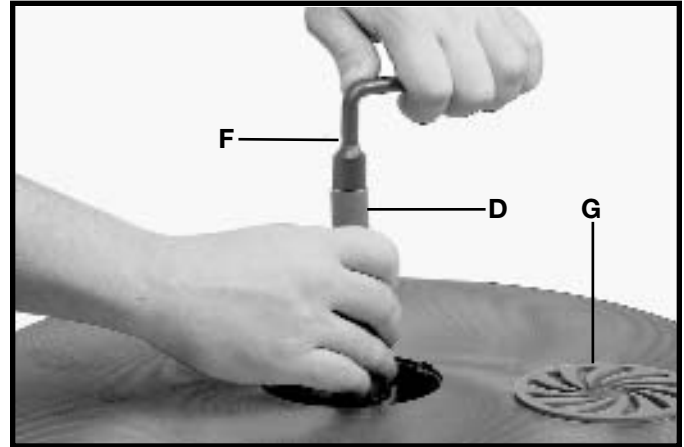


Fig. 11

3. Place the table insert (G) Figs. 11 & 12 over abrasive sleeve (C) and onto the table. **NOTE:** Arrows on the table insert indicate the top surface.
4. Compartments (H) Fig. 12, on the sides of the sander can be used for storing work pieces or accessories.

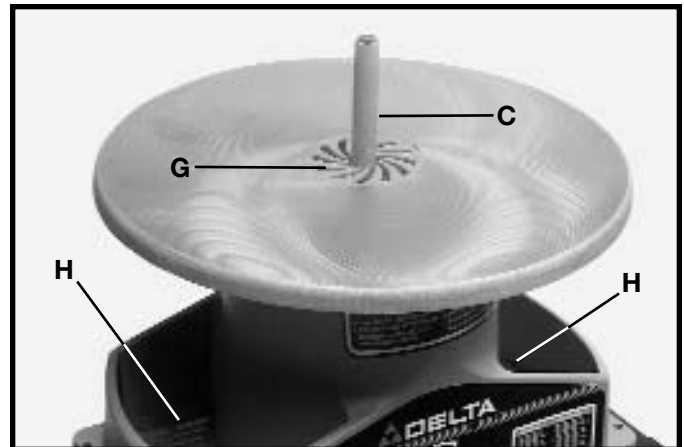


Fig. 12



Fig. 13



Fig. 14

ATTACHING THE DUST BAG

1. A 1-1/2" I.D. dust chute (A) Fig. 13, is supplied with the spindle sander to accept the dust bag.
2. To attach the dust bag (B) Fig. 14, to the dust chute (A), squeeze the spring clamp on the dust bag and slide it over the dust chute. Release clamp.

FASTENING SANDER TO A SUPPORTING SURFACE

If the spindle sander has a tendency to tip over, slide, or walk, secure the sander to the supporting surface using the four holes in the base of the machine. The optional accessory stand has four plastic feet with holes that allow easy mounting of the stand.

CONNECTING SANDER TO POWER SOURCE

POWER CONNECTIONS

A separate electrical circuit should be used for your tools. This circuit should not be less than #12 wire and should be protected with a 20 Amp time lag fuse. If an extension cord is used, use only 3-wire extension cords which have 3-prong grounding type plugs and 3-hole receptacles which accept the tool's plug. Before connecting the motor to the power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as indicated on the tool. All line connections should make good contact. Running on low voltage will damage the motor.

WARNING: DO NOT EXPOSE THE TOOL TO RAIN OR OPERATE THE TOOL IN DAMP LOCATIONS.

MOTOR SPECIFICATIONS

Your sander is wired for 120 volt, 60 Hz alternating current. Before connecting the sander to the power source, make sure the switch is in the "OFF" position. The 1725 RPM motor provides sixty 7/8" long oscillating strokes per minute.

GROUNDING INSTRUCTIONS



WARNING: THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

1. All grounded, cord-connected tools:

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or other service personnel if the grounding instructions are not completely and clearly understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding type plugs and 3-hole receptacles that accept the tool's plug, as shown in Fig. 15. Repair or replace damaged or worn cord immediately.

2. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating less than 150 volts:

This tool is intended for use on a normal 120-volt circuit and has a grounded plug that looks like the plug illustrated in Fig. 15.

If a properly grounded outlet is not available, a temporary adapter, shown in Fig. 16, may be used for connecting the 3-prong grounding type plug to a 2-hole receptacle. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place with a metal screw.

NOTE: In Canada, the use of a temporary adapter is not permitted by the Canadian Electric Code.



WARNING: IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE HAVE A QUALIFIED ELECTRICIAN CHECK THE RECEPTACLE.

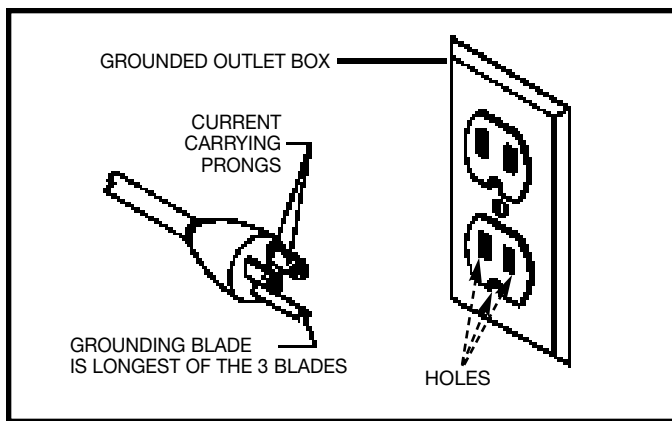


Fig. 15

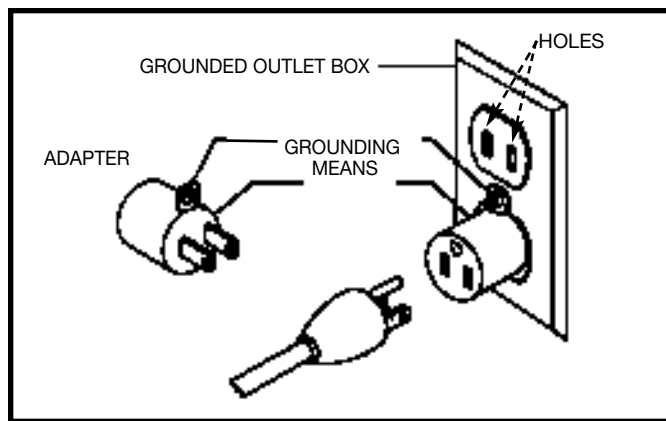


Fig. 16

MINIMUM GAUGE EXTENSION CORD			
RECOMMENDED SIZES FOR USE WITH STATIONARY ELECTRIC TOOLS			
Ampere Rating	Volts	Total Length of Cord in Feet	Gauge of Extension Cord
0-6	120	up to 25	18 AWG
0-6	120	25-50	16 AWG
0-6	120	50-100	16 AWG
0-6	120	100-150	14 AWG
6-10	120	up to 25	18 AWG
6-10	120	25-50	16 AWG
6-10	120	50-100	14 AWG
6-10	120	100-150	12 AWG
10-12	120	up to 25	16 AWG
10-12	120	25-50	16 AWG
10-12	120	50-100	14 AWG
10-12	120	100-150	12 AWG
12-16	120	up to 25	14 AWG
12-16	120	25-50	12 AWG
12-16	120	GREATER THAN 50 FEET NOT RECOMMENDED	

Fig. 17

USE PROPER EXTENSION CORDS.

Use proper extension cords. Make sure your extension cord is in good condition and is a 3-wire extension cord which has a 3-prong grounding type plug and a 3-hole receptacle which will accept the tool's plug. When using an extension cord, be sure to use one heavy enough to carry the current of the tool. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. Fig. 17, shows the correct gauge to use depending on the cord length. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

OPERATING CONTROLS AND ADJUSTMENTS

STARTING AND STOPPING SANDER

The on/off switch (A) Fig. 18, is located on the sander base. To turn the sander "ON", move the switch to the up position. For "OFF", move the switch down.

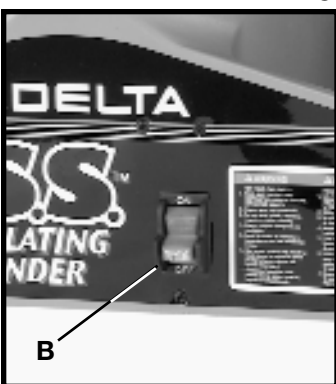


Fig. 18

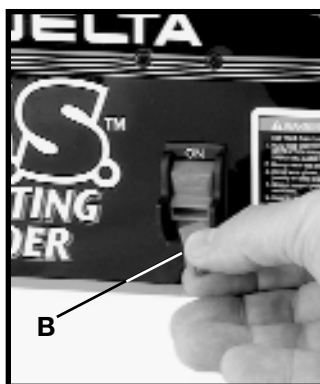


Fig. 19

LOCKING SWITCH IN THE "OFF" POSITION

IMPORTANT: When the tool is not in use, the switch should be locked in the "OFF" position to prevent unauthorized use. To lock the switch, grasp the switch toggle (B) and pull it out of the switch (Fig. 19). If the switch toggle is removed while the sander is running, the tool can be turned "OFF", but cannot be restarted without inserting the switch toggle (B).

CHANGING ABRASIVE SLEEVES AND SANDING DRUMS

1. DISCONNECT THE TOOL FROM THE POWER SOURCE.

2. Remove table insert (A) Fig. 20.

3. Use the supplied socket wrench (B) Fig. 20, to remove the arbor screw counter-clockwise. Remove the abrasive sleeve (C) with the sanding drum from the spindle assembly.

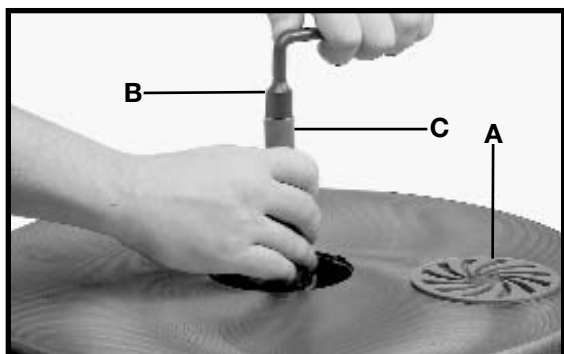


Fig. 20

4. Slide the used abrasive sleeve off the sanding drum. Slide the new abrasive sleeve on(C) Fig. 21.

5. Attach the abrasive sleeve and sanding drum combination (C) Fig. 20, firmly on the spindle adapter. Fasten with the arbor screw (removed in **STEP 2**). Replace the table insert with the arrows up.

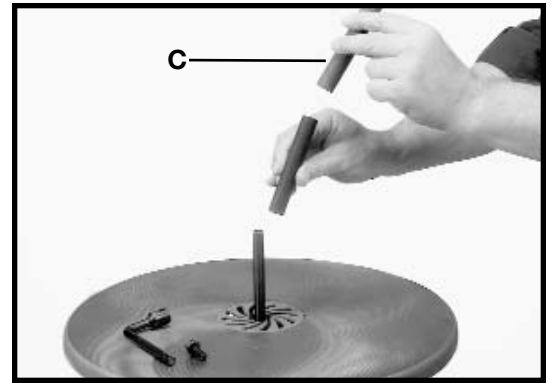


Fig. 21

ADJUSTING SPINDLE ASSEMBLY

If excessive play develops in the spindle assembly, or if the machine increases its noise level after extended use, make the following adjustment to the spindle assembly.

1. **DISCONNECT THE TOOL FROM THE POWER SOURCE.**
2. Turn the machine over and place it on a firm supporting surface. Be careful not to damage the spindle assembly.
3. Remove the four mounting screws (A) Fig. 22 and remove the case (B) from the machine.
4. **IMPORTANT:** Shaft (C) Fig. 23, must be positioned inside the center of bracket (D). To adjust, loosen the two lock-nuts (E) Fig. 23. Tighten or loosen the two adjusting screws (F) as necessary until the shaft (C) is centered inside the bracket (D), with the adjustment screws (F) contacting the shaft. Tighten the two locknuts (E) Fig. 23.
5. Attach the case with the four screws removed in **STEP 3**.

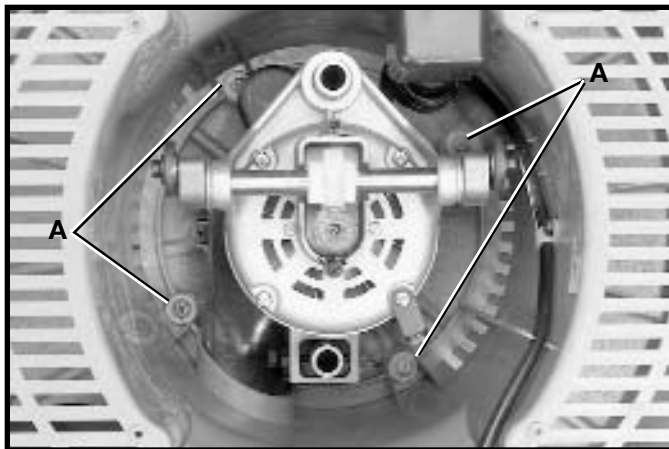


Fig. 22

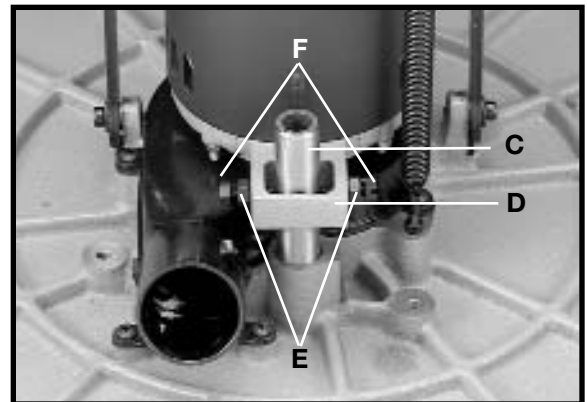


Fig. 23

OPERATION

Fig. 24, illustrates sanding inside curves.

IMPORTANT: Always sand against the rotation of the sanding drum.

The oscillating action of the sanding drum minimizes score marks and prevents clogging of the sanding drum, providing faster, smoother sanding and increasing the life of the sanding sleeve.



Fig. 24

MAINTENANCE

After approximately 100 hours of use, the grease in the gear housing should be checked and changed.

To gain access to the gear housing:

1. **DISCONNECT THE TOOL FROM THE POWER SOURCE.**
2. Turn the machine over and loosen the two screws (A) Fig. 25, and remove the cover (B).
3. Remove the old grease and repack the gears.
4. Replace the cover.

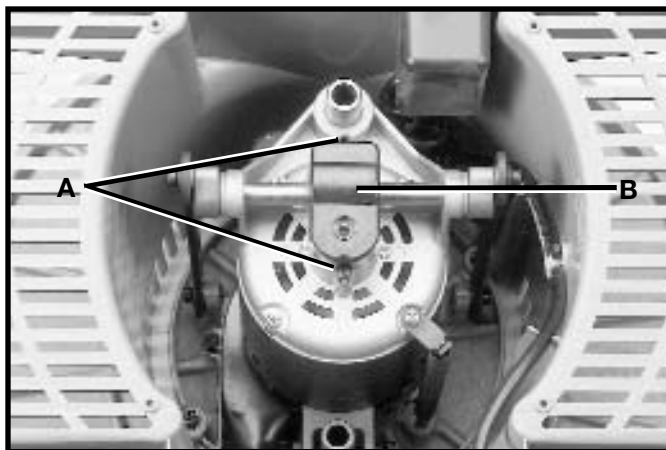


Fig. 25

ACCESSORIES

A complete line of accessories is available from your Delta Supplier, Porter-Cable • Delta Factory Service Centers, and Delta Authorized Service Stations. Please visit our Web Site www.deltamachinery.com for a catalog or for the name of your nearest supplier.

⚠ WARNING: Since accessories, other than those offered by Delta, have not been tested with this product, use of such accessories could be hazardous. For safest operation, use only Delta recommended accessories.

50-287	Mobile Base	31-782	3/4" Sanding Spindle Kit
50-780	Stand	31-783	1" Sanding Spindle Kit
31-781	Sanding Spindle Set (1", 2" 3" rubber spindles Drum plates, abrasive sleeves and table inserts.)	31-784	1-1/2" Sanding Spindle Kit
		31-785	2" Sanding Spindle Kit
		31-786	3" Sanding Spindle Kit

Our abrasive sleeves come in 80, 120, and 150 grit, and can be ordered six to a package. Since these sleeves are too numerous to list here, please refer to our catalog or your nearest supplier for more information.



PARTS, SERVICE OR WARRANTY ASSISTANCE

All Delta Machines and accessories are manufactured to high quality standards and are serviced by a network of Porter-Cable • Delta Factory Service Centers and Delta Authorized Service Stations. To obtain additional information regarding your Delta quality product or to obtain parts, service, warranty assistance, or the location of the nearest service outlet, please call 1-800-223-7278 (In Canada call 1-800-463-3582).



Delta Building Trades and Home Shop Machinery Two Year Limited Warranty

Delta will repair or replace, at its expense and at its option, any Delta machine, machine part, or machine accessory which in normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to a Delta factory service center or authorized service station with proof of purchase of the product within two years and provides Delta with reasonable opportunity to verify the alleged defect by inspection. Delta may require that electric motors be returned prepaid to a motor manufacturer's authorized station for inspection and repair or replacement. Delta will not be responsible for any asserted defect which has resulted from normal wear, misuse, abuse or repair or alteration made or specifically authorized by anyone other than an authorized Delta Service facility or representative. Under no circumstances will Delta be liable for incidental or consequential damages resulting from defective products. This warranty is Delta's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Delta.

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(Obtenga Refaccion de Partes o Servicio para su Herramienta en los Siguientes Centros de Porter-Cable•Delta)

ARIZONA

Tempe 85282 (Phoenix)
2400 West Southern Avenue
Suite 105
Phone: (602) 437-1200
Fax: (602) 437-2200

CALIFORNIA

Ontario 91761 (Los Angeles)
3949A East Guasti Road
Phone: (909) 390-5555
Fax: (909) 390-5554

San Leandro 94577 (Oakland)
3039 Teagarden Street
Phone: (510) 357-9762
Fax: (510) 357-7939

FLORIDA

Davie 33314 (Miami)
4343 South State Rd. 7 (441)
Unit #107
Phone: (954) 321-6635
Fax: (954) 321-6638

Tampa 33609
4538 W. Kennedy Boulevard
Phone: (813) 877-9585
Fax: (813) 289-7948

GEORGIA

Forest Park 30297 (Atlanta)
5442 Frontage Road,
Suite 112
Phone: (404) 608-0006
Fax: (404) 608-1123

ILLINOIS

Addison 60101 (Chicago)
311 Laura Drive
Phone: (630) 628-6100
Fax: (630) 628-0023

Woodridge 60517 (Chicago)
2033 West 75th Street
Phone: (630) 910-9200
Fax: (630) 910-0360

MARYLAND

Elkridge 21075 (Baltimore)
7397-102 Washington Blvd.
Phone: (410) 799-9394
Fax: (410) 799-9398

MASSACHUSETTS

Braintree 02185 (Boston)
719 Granite Street
Phone: (781) 848-9810
Fax: (781) 848-6759

Franklin 02038 (Boston)
Franklin Industrial Park
101E Constitution Blvd.
Phone: (508) 520-8802
Fax: (508) 528-8089

MICHIGAN

Madison Heights 48071 (Detroit)
30475 Stephenson Highway
Phone: (248) 597-5000
Fax: (248) 597-5004

MINNESOTA

Minneapolis 55429
4315 68th Avenue North
Phone: (763) 561-9080
Fax: (763) 561-0653

MISSOURI

North Kansas City 64116
1141 Swift Avenue
P.O. Box 12393
Phone: (816) 221-2070
Fax: (816) 221-2897

St. Louis 63119
7574 Watson Road
Phone: (314) 968-8950
Fax: (314) 968-2790

NEW YORK

Flushing 11365-1595 (N.Y.C.)
175-25 Horace Harding Expwy.
Phone: (718) 225-2040
Fax: (718) 423-9619

NORTH CAROLINA

Charlotte 28270
9129 Monroe Road, Suite 115
Phone: (704) 841-1176
Fax: (704) 708-4625

OHIO

Columbus 43214
4560 Indianola Avenue
Phone: (614) 263-0929
Fax: (614) 263-1238

Cleveland 44125
8001 Sweet Valley Drive
Unit #19
Phone: (216) 447-9030
Fax: (216) 447-3097

OREGON

Portland 97230
4916 NE 122 nd Ave.
Phone: (503) 252-0107
Fax: (503) 252-2123

PENNSYLVANIA

Willow Grove 19090
520 North York Road
Phone: (215) 658-1430
Fax: (215) 658-1433

TEXAS

Carrollton 75006 (Dallas)
1300 Interstate 35 N, Suite 112
Phone: (972) 446-2996
Fax: (972) 446-8157

Houston 77055
West 10 Business Center
1008 Wirt Road, Suite 120
Phone: (713) 682-0334
Fax: (713) 682-4867

WASHINGTON

Renton 98055 (Seattle)
268 Southwest 43rd Street
Phone: (425) 251-6680
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Calgary, Alberta
T2E 8L2
Phone: (403) 735-6166
Fax: (403) 735-6144

BRITISH COLUMBIA

8520 Baxter Place
Burnaby, B.C.
V5A 4T8
Phone: (604) 420-0102
Fax: (604) 420-3522

MANITOBA

1699 Dublin Avenue
Winnipeg, Manitoba
R3H 0H2
Phone: (204) 633-9259
Fax: (204) 632-1976

ONTARIO

505 Southgate Drive
Guelph, Ontario
N1H 6M7
Phone: (519) 836-2840
Fax: (519) 767-4131

QUÉBEC

1515 ave.
St-Jean Baptiste,
Québec, Québec
G2E 5E2
Phone: (418) 877-7112
Fax: (418) 877-7123

1447, Begin
St-Laurent, (Montréal),
Québec
H4R 1V8
Phone: (514) 336-8772
Fax: (514) 336-3505

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