



OWNER'S MANUAL

7" SANDERS NOS.

4040, 4041
4042, 4043

1. ALWAYS WEAR SAFETY GOGGLES WHEN USING THIS TOOL.
2. DO NOT USE GRINDING WHEELS ON THIS TOOL.
3. FOLLOW ALL SAFETY RULES LISTED ON NEXT PAGE OF THIS MANUAL.
4. USING A DUST MASK IS RECOMMENDED.

MOTOR

Your tool is powered by a Black & Decker built motor. Be sure your power supply agrees with nameplate marking. VOLTS AC means Alternating Current (25 to 60 cycles) ONLY. VOLTS AC/DC means it will also operate on Direct Current. Voltage variation of more than 10% will cause loss of power and over-heating. All B&D tools are factory-tested; if this tool does not operate, check the power supply.

BRUSHES

Carbon Brushes should be regularly inspected for wear. To inspect brushes, unplug tool, unscrew the plastic brush inspection caps (located in top and bottom motor housing) and the spring and brush assemblies may be withdrawn from the tool. Keep brushes clean and sliding freely in their guides. Carbon brushes have varying symbols stamped into them, and if the brush is worn down to the line closest to the spring, they must be replaced. New brush assemblies are available at Service Centers; see TOOLS, ELECTRIC in the Yellow Pages.

EXTENSION CORD

When using the tool at a considerable distance from power source, a 3-conductor, grounding-type extension cord of adequate size must be used for safety, and to prevent loss of power and over-heating. Use the table below to determine the minimum wire size required.

Use only three wire extension cords which have three-prong grounding-type plugs and three-pole receptacles which accept the tool's plug. Replace or repair damaged cords.

Amperes rating (on nameplate)	0 to 2.0	2.10 to 3.4	3.5 to 5.0	Wire Size (A.W.G.)			
				5.10 to 7.0	7.10 to 12.0	12.1 to 16.0	
25 ft.	18	18	18	18	16	14	14
50 ft.	18	18	18	18	16	14	12
100 ft.	18	18	16	14	12	10	10
150 ft.	16	14	12	12	12	—	—
200 ft.	16	14	12	12	10	—	—

LUBRICATION

Your tool was properly lubricated before leaving the factory. In from two to six months, depending upon use, take or send your tool to a Black & Decker Service Center, or Authorized Service Station, for a complete cleaning, inspection and relubrication. Tools used constantly on production jobs will need relubricating more often. Also, tools "out of service" for long periods should be relubricated before being put back to work.

RECOMMENDED ACCESSORIES AND APPLICATIONS FOR THE 7" BALL-BEARING SANDER

Use 7" Abrasive Discs with 7" Sanders. Other recommended accessories for your Sander are listed below. CAUTION: The use of any other accessory might be hazardous.

Cat. No.	RPM	Type of Sander Accessory	Applications
4040 4041	1000	No. 51824 7" Q.C. Super-Flexible Rubber Backing Pad.	Contour Sanding
	1400	No. 51824 7" Q.C. Super-Flexible Rubber Backing Pad and Abrasive Discs. Nos. 37796 and 37797 Vitri-Buffer Bonnets, No. 45434 Vitri-Buffer Pad.	Fiberglass Sanding, Plastics Sanding, Sanding Undercoat, Rubbing out lacquer, Glass polishing.
4042	2000	No. 51824 7" Q.C. Super-Flexible Rubber Backing Pad. No. 51824 7" Q.C. Super-Flexible Rubber Backing Pad. No. 31000 6 3/4" 'Koolflex' Backing Pad and Abrasive Discs. Nos. 37796 and 37797 Vitri-Buffer Bonnets.	Contour Sanding Metal and Wood Sanding Waxing
4043	3500	No. 18056 4" Wire Cup Brush. No. 31000 6 3/4" 'Koolflex' Backing Pad, No. 51824 7" Q.C. Super-Flexible Rubber Backing Pad and Abrasive Discs. No. 18056 4" Wire Cup Brush.	Wire Brushing Finish Sanding on Metal and Wood Wire Brushing

COMMERCIAL / INDUSTRIAL USE WARRANTY

Black & Decker warrants this product for one year from date of purchase. We will repair without charge, any defects due to faulty material or workmanship. Please return the complete unit, transportation prepaid, to any Black & Decker Service Center or Authorized Service Station listed under "Tools Electric" in the yellow pages. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others.

IMPORTANT!

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (excluding brush inspection and replacement) should be performed by Black & Decker Service Centers or other qualified service organizations, always using Black & Decker replacement parts.

THE BLACK & DECKER MFG. CO., TOWSON, MD. 21204, U.S.A.

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SAFETY RULES FOR POWER TOOLS

- KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- AVOID DANGEROUS ENVIRONMENT.** Don't expose power tools to rain. Don't use power tool in damp or wet locations. And keep work area well lit.
- KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
- STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place—out of reach of children.
- DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
- WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
- USE SAFETY GLASSES** with most tools. Also face or dust mask if cutting operation is dusty.
- DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
- SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- DON'T OVERREACH.** Keep proper footing and balance at all times.
- MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- DISCONNECT TOOLS.** When not in use, before servicing; when changing accessories such as blades, bits, cutters, etc.
- REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- AVOID ACCIDENTAL STARTING:** Don't carry plugged-in tool with finger on switch. Be sure switch is "OFF" when plugging in.
- OUTDOOR USE EXTENSION CORDS**—When tool is used outdoors, use only extension cords suitable for use outdoors and so marked.
- DO NOT OPERATE** portable electric tools in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

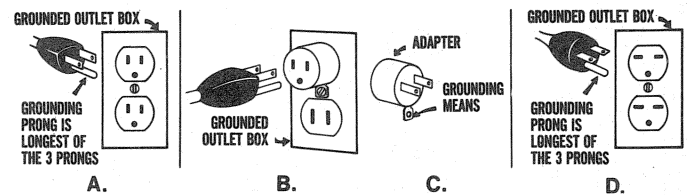
GROUNDING

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal.

If your unit is for use on less than 150 volts, it has a plug like that shown in Figure A. If it is for use on 150 to 250 volts, it has a plug like that shown in Figure D. An adapter, Figures B and C, is available for connecting Figure A plugs to two-prong receptacles. The green-colored rigid ear, lug, etc., must be connected to a permanent ground such as a properly grounded outlet box.

No adapter is available for a plug as shown in Figure D. Adapter shown in Figures B & C is Not for Use in Canada.

GROUNDING (continued)



We recommend that you **NEVER** disassemble the tool or try to do any rewiring in the electrical system. Any repairs should be performed only by B&D Service Centers or other qualified service organizations. Should you be determined to make a repair yourself, remember that the green colored wire is the "grounding" wire. Never connect this green wire to a "live" terminal. If you replace the plug on the power cord, be sure to connect the green wire only to the grounding (longest) prong on a 3-prong plug.

SWITCH

To start tool, depress trigger; to stop, release trigger. To lock trigger in "ON" position for continuous operation, depress trigger, push in locking button, and release trigger. To release locking mechanism and turn off tool, depress trigger and release.

ATTACHING DISCS

- Place Backing Pad and sanding disc on spindle of tool.
- Screw Clamp Washer **PARTIALLY** on the spindle.
- With one hand, depress the spindle lock button and hold the button down. Grasp the pads and sanding disc with the other hand and turn by hand to tighten the entire assembly (fig. 1).

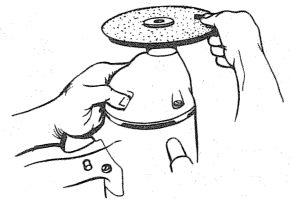


Fig. 1

To remove pads and discs: depress spindle lock button; grasp the pads and disc; and turn pad and disc assembly in opposite direction.

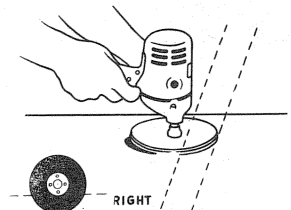


Fig. 2

OPERATION

Grasp the control handles firmly and operate the tool freely without forced effort or unnecessary pressure. For maximum efficiency, the tool must be positioned so that the sanding disc is at the proper angle to the work. Fig. 2 (marked "RIGHT") illustrates how the tool is tipped slightly in order to let the maximum amount of abrasive contact the work without affecting the smoothness of the sanding action. Fig. 3 and Fig. 4 (marked "WRONG") show incorrect positions which allow either too little or too much abrasive contact. If only the outer edge of the sanding disc is used (as in Fig. 3), a rough cut surface will result. If the sanding disc is pressed flat against the work (as in Fig. 4), the cutting action will be irregular and bumpy, and the tool will be difficult to control.

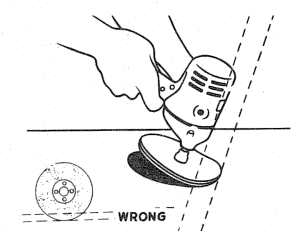


Fig. 3

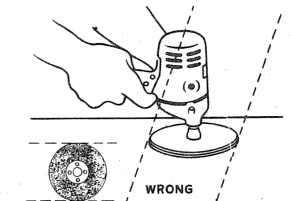


Fig. 4

CLEANING

Blowing dust and grit out of the main housing by means of an air hose is recommended and may be done as often as dirt is seen collecting in and around the ventilator vents. The motor should be running while air is being blown into the air vents.

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