GUARANTEE

Black & Decker guarantees, for one year from date of purchase, to correct by repair or parts replacement without charge any defect due to faulty material or workmanship. Simply return the complete unit, transportation prepaid, to we assume no responsibility for damage caused by misuse, careless handling any Black & Decker Service Center or Authorized Service Station. Naturally, or where repairs have been made or attempted by others. No other guarantee, written or verbal, is authorized by us.

IMPORTANT!

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using BLACK & DECKER replacement parts.

FACTORY SALES & SERVICE CENTERS

See'Tools-Electric'
—Yellow Pages—
for Service & Sales

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	AL 8-13
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CALIFORNIA: Anaheim 92802, 1235 So. Euclid Ave	772-40
	TE 4-59
	444-31
	871-72
Santa Clara 95050, 2291 The Alameda Van Nuvs 91401, 14920 Victory Blvd	241.91
ath St.	222.06
	249.62
DISTRICT OF COLUMBIA: Washington Bladensburg, Maryland 20710, 4501 Baltimore Ave. 301	779-38
Falls Church, Virginia 22046, 129 Annandale Road. 703	533-11
	356-29
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	872-83
GEORGIA: Atlanta 30313, 316 Techwood Drive, N.W404	JA 4-04
	536-937
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	OR 3-09
Rock Island 61201, 725 30th Street. 309	788-17
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	534-770
	TA 3-528
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e714	772-4050	NEW YORK; Buffalo 14209, 881 W. Delavan Ave	
213	RI 9-0371	New York 10462, 1894 E. Tremont	ci
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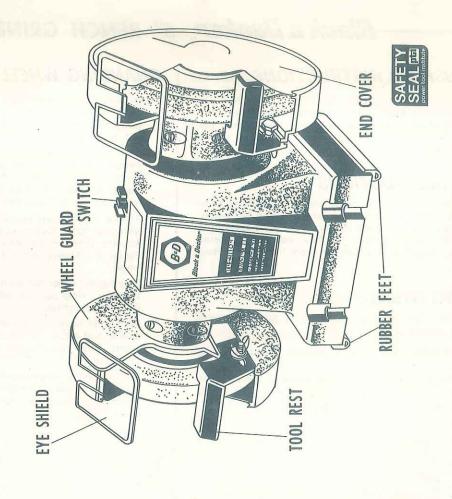
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THE BLACK & DECKER MFG. CO., TOWSON, MD. 21204, U.S A.



Black & Decke

OWNER'S MANUA



2060 11360 East 7 Mile 5" BENCH GRINDER NO. 7900



P.T.I. SAFETY RULES FOR STATIONARY POWER TOOLS

- KNOW-YOUR POWER TOOL. Read the owner's manual carefully. Learn its application and limitation, as well as the specific potential hazards peculiar to this tool.
- 2. KEEP GUARDS IN PLACE and in working order.
- GROUND ALL TOOLS. If tool is equipped with threeprong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter wire must be attached to a known ground. Never remove the third prong.
- REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed before turning on tool.
- KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
- AVOID DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations. Keep your work area well illuminated.
- KEEP CHILDREN AWAY. All visitors should be kept a safe distance from work area.
- MAKE WORKSHOP KIDPROOF—with padlocks, master switches, or by removing starter keys.
- DON'T FORCE TOOL. It will do the job better and be safer at the rate for which it was designed.
- USE RIGHT TOOL. Don't force tool or attachment to do a job it was not designed for.
- WEAR PROPER APPAREL. No loose clothing or jewelry to get caught in moving parts.
- USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty
- SECURE WORK. Use clamps or a vise to hold work, when practical. It's safer than using your hand, frees both hands to operate tool.
- DON'T OVERREACH. Keep your proper footing and balance at all times.
- MAINTAIN TOOLS IN TOP CONDITION. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- DISCONNECT TOOLS before servicing and when changing accessories such as blades, bits, cutters.
- USE RECOMMENDED ACCESSORIES. Consult owner's manual. Use of improper accessories may be hazardous.
- AVOID ACCIDENTAL STARTING. Make sure switch is off before plugging in cord.

SWITCH

The switch is located on the top of the housing, above the nameplate. When you stand in front of the grinder, pulling the button toward you turns the motor "ON"; pushing the button away from you (toward the back of the grinder) turns the motor "OFF". Stampings on the switch also indicate whether it is in the "ON" or "OFF" position.

ADDITIONAL GRINDER SAFETY RULES

- ALWAYS wear safety glasses or other eye protection when operating this tool and keep the eye shields mounted in their proper position on the wheel guard.
- Handle grinding wheels carefully to avoid bumping or dropping. DO NOT use a grinding wheel that has been dropped. Before using, inspect each grinding wheel for cracks or flaws and if these are evident, discard the wheel.
- Before mounting a new wheel, be sure that it is marked with an R.P.M. that is the same as, or higher than, the no-load speed of the grinder as marked on the nameplate.
- Never start a grinder with anyone, including the operator, standing in line with the wheel. After installing a replacement wheel, stand to one side and allow it to revolve freely for about one minute.
- Do not grind on the sides of grinding wheels unless they are the special wheels designed specifically for this purpose.
- Any increase in vibration over normal indicates an improperly mounted replacement wheel or bent spindle shaft. Unplug the grinder and check wheel mounting. If mounting is correct, but wheel wobbles or excess vibration continues, have grinder serviced—see back page.

GROUNDING

These units are equipped with approved 3-conductor power cord and 3-prong grounding type attachment plug to be used with the proper grounding type receptacle, in accordance with the National Electrical Code, Canadian Electrical Code, and Underwriters' Laboratories specifications. The green colored conductor in the cord is the grounding wire. Never connect the green wire to a "live" terminal.

If your unit requires less than 150 volts it has a plug that looks like Fig. "A". It will fit directly into the proper type of 3-wire grounding receptacle. The unit is then grounded automatically each time it is plugged in.

Shown in Fig. "B" is a special grounding adapter (not allowed in Canada by the Canadian Electrical Code) which is available from your dealer and will permit using a 2-wire receptacle. The green grounding wire extending from the side of the adapter must be connected to a Permanent Ground.

If the unit requires from 150 to 250 volts, it has a plug like Fig. "C". No adapter is available and the plug must be used in the proper 3-wire grounding receptacle.









EXTENSION CORD

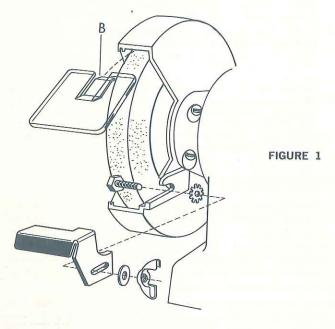
When using the tool at a considerable distance from power source, a 3-conductor, grounding-type extension cord of adequate size must be used for safety, and to prevent loss of power and over-heating. Use the table below to determine the minimum wire size required:

Extension Cord Length in feet	25	50	75	100
A.W.G. Wire size required:				
120 Volts	18	18	18	16
220 Volts	18	18	18	18

Before using tool cord or extension cord, inspect them for loose or exposed wires and damaged insulation. Make any needed repairs or replacement before using your power tool.

ATTACHING EYE SHIELDS

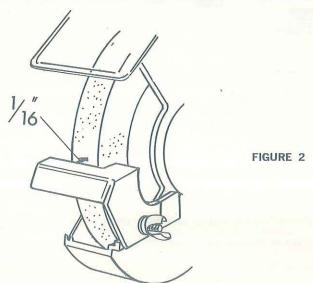
The two Eye Shields are made of clear, shatterproof plastic, and are attached to the top of each wheel guard as shown in Figure 1. The tang "B" slides under the top of the guard and holds the Eye Shield in place by compression. If an Eye Shield becomes too loose to stay in position on the guard, take it off the grinder and carefully press tang "B" upward until a tighter compression fit on the guard is obtained.



ATTACHING TOOL RESTS

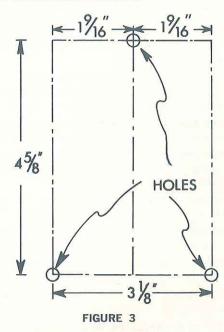
The two Tool Rests are not interchangeable — one fits the left side of the grinder and one the right side. Be careful to assemble parts exactly as shown in Figure 1, and note that the star lockwasher goes between the wheel guard and the inside of the Tool Rest. Tighten the wing nut firmly with a clearance of 1/16" between the grinding wheel and the Tool Rest-see Figure 2.

Tool Rests are adjustable for wheel wear. Keep them adjusted so that a clearance of 1/16" is continually maintained between the wheel and the Tool Rest as the wheel wears. This clearance is very important as it will prevent any loose piece of significant size from jamming between the wheel and the Tool Rest. Such jamming could fracture the wheel, break the Tool Rest, or both.



BENCH MOUNTING

Mounting the grinder on a bench is strongly recommended in order to prevent movement of the grinder when pressure is applied against a wheel. To mount, first drill three holes for 1/4" wood screws or bolts in the bench as shown in Figure 3. Use $\frac{1}{4}$ " wood screws or bolts as shown in Figure 4, and tighten down only enough to partially compress rubber feet (about 1/16"). The rubber feet will not be effective in absorbing vibration if fully compressed. When using 1/4" bolts, a second nut is required to lock against the first nut and keep grinder from loosening during operation. Never operate the grinder without the rubber feet attached to its base.



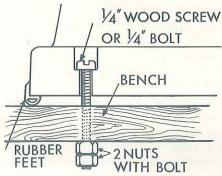


FIGURE 4

GRINDING INSTRUCTIONS

Put on safety glasses or other eye protection and hold the work firmly. Rest the work on the tool rest and feed it slowly into the wheel at the desired grinding angle. Treat the wheel with respect . . . do not jam the work into the wheel or use unnecessary pressure. Grind only on the face of the wheel, unless you have a special wheel specifically made to permit grinding on the side of the wheel.

When grinding tempered tools such as chisels and knives, keep a container of cutting fluid or water nearby. During the grinding operation, frequently dip the hot part of the work into the liquid to avoid overheating and losing the temper. In fact, all metals can be ground more efficiently if they are "quenched" in this manner to avoid overheating which can soften or "burn" the metal.

WIRE BRUSHING INSTRUCTIONS

Wire Brushing quickly removes rust, scale or old paint. ALWAYS wear safety glasses or other eye protection when using wire wheels as pieces of wire may break off and be thrown from the rotating brush. Handle Wire Wheel Brushes carefully with gloves or rags to avoid puncturing the skin.

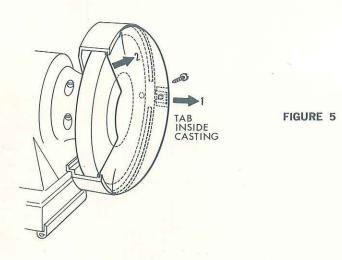
BUFFING INSTRUCTIONS

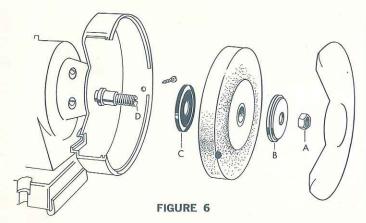
Use Cotton Buffing Wheels, normally with stick buffing compound applied to the face of the wheel (usually about $\frac{5}{8}$ " wide). Wear safety goggles for protection against particles of compound thrown off by the wheel. Remove the tool rest if it interferes with the buffing operation. Do not jam work into wheel. Hold work firmly.

CHANGING WHEELS

UNPLUG POWER CORD AND BE SURE THAT SWITCH STAYS IN THE "OFF" POSITION.

 Remove End Cover—see Figure 5. Remove the screw in the back of the wheel guard. Using a screwdriver if necessary, pry the end cover outward from the wheel in the direction of arrow #1. Slide the cover backward (arrow #2) out of the grooves in the front of the wheel guard.

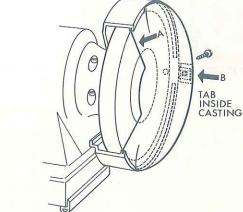




See Figure 6. Remove clamp nut "A" by turning it in the
direction the wheel normally rotates. (The nut "A" shown
is silver-colored and has a right-hand thread. The black nut
at the other end of the grinder has a left-hand thread). Use
a screwdriver in the end slot "D" to hold spindle when
removing nuts.

CHANGING WHEELS (Continued)

- Remove Outer Clamp Washer "B" (silver colored with small hole), Wheel, and Inner Clamp Washer "C" (black with large hole). Inspect washers. If they are burred or not perfectly flat, repair or replace them.
- 4. Each Grinding Wheel purchased should be equipped with a blotter fastened to each side of the wheel. Blotters must always be used between the wheel and the inner and outer clamp washers. Contact surfaces of wheels, blotters and washers must be clean and flat.
- Always use the exact type of clamp washers that are supplied with your tool. Never substitute flat or odd sized washers. Replace them in the exact order and position shown in Figure 6. Always place hollow sides of washers against wheel.
- Only tighten arbor nut sufficiently to drive the wheel without slippage. Hold spindle with screwdriver in end slot "D". Do not overtighten.
- Be sure to replace end covers (see Figure 7). Slide cover in direction of arrow "A" into upper and lower grooves in wheel guard. Push cover toward wheel (arrow "B") with threaded tab inside wheel guard. Replace screw.
- After installing replacement wheel, put on safety goggles and stand to the side of the grinder, turn switch "ON" and allow wheel to revolve freely for one minute before beginning to grind.



LUBRICATION

FIGURE 7

Bench Grinder spindles are mounted on lubricant impregnated bearings. No periodic lubrication of the Bench Grinder is required.

ACCESSORIES

GRINDING WHEELS (5" Diam. x $\frac{1}{2}$ " Face x $\frac{1}{2}$ " Arbor Hole). Manufactured by the nation's leading abrasive manufacturers to stringent quality specifications.

Cat. No. 79-555 Coarse — 36 Grit Cat. No. 79-556 Medium — 60 Grit

WIRE WHEEL BRUSHES (1/2" Arbor Hole).

Each wire tuft is locked independently, giving a dense, even brushing surface, and less danger of loose wires.

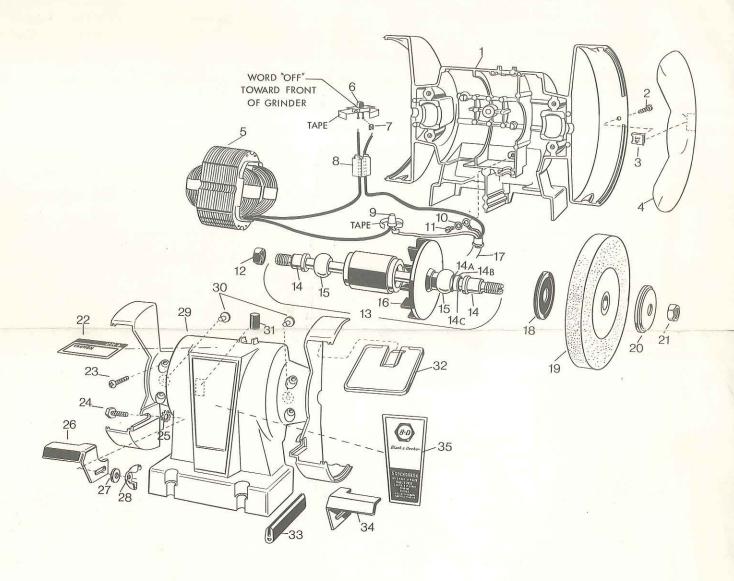
Cat. No. U-1200 4" Deluxe, Fine Wire Cat. No. U-1201 4" Deluxe, Coarse Wire

Cat. No. U-1232 4" Utility, Fine Wire Cat. No. U-1233 4" Utility, Coarse Wire

COTTON BUFF:

For general purpose buffing and polishing. Cat. No. U-1322 4'' Diam. x $\frac{5}{8}''$ Face x $\frac{1}{2}''$ Arbor Hole.

4



PARTS IDENTIFICATION

Inde No.		Description	Qty.	Index No.	Part No.	Description	Qty.	
1	73062-01	Motor Housing	1	18	73074	Inner Clamp Washer	2	
2	74068	6-20 x Self-Tap Screw	2	19	79-555	5" Grinding Wheel,		-
3	74067	Type "U" Speed Nut	2			Coarse, 36 Grit	1	
4	73064	Wheel End Cover	2		79-556	5" Grinding Wheel,		
5 6	73075-71	Stator	1			Med., 60 Grit	1	
6	73950	Switch	1	20	73566	Outer Clamp Washer	2	
7	33315	Connector	2	21	49835	3/8-24 Nut, R.H.	1	
8	73340	Switch Box	1	22	73514	Caution Label	1	
9	46629	Wire Nut	1	23	99291-08	10-24 x 1/2 Pan Hd.		
10	36700	#8 In. Tooth				Screw	4	
	DOMESTICAL STREET	Lockwasher	1	24	99184-12	1/4-20 x 3/4 Hex Hd.		
11	39001	8-32 x 5/16 Pan Hd.				Cap Screw	2	
2000000		Self-Tap Screw	1	25	38297	#12 Ext. Tooth		
12	74008	3/8-24 Nut, L.H.	1			Lockwasher	1 2 2	
13	73070	Rotor & Fan (Incls.		26	73067	Tool Rest, L.H.	1	
		#14, #14A,		27	72349	1/4 Plain Washer	2	
		#14B, #14C, #15,		28	36981	1/4-20 Wing Nut	2	
		#16)	1	29	73440	Cover Housing &		
14	73567	Wheel Adaptor	2			Nameplate		
14A	73343	Spring Washer	1			(Incls. #22, #35)	1	
14B	73342	Bearing Spacer	1	30	73076	Bearing Plug	2 1 2 2	
14C	39645	Retaining Ring	1	31	72448	Rubber Plug	1	
15	73069	Spherical Bearing	2	32	73065	Eye Shield	2	
16	73341	Fan	1	33	38091-09	Rubber Feet	2	
17	74259	Cord & Plug	1	34	73066	Tool Rest, R.H.	1	
	70807	Attachment Plug	1	35	73068	Nameplate	1	



IMPORTANT!—To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using BLACK & DECKER replacement parts.

WHEN ORDERING REPLACEMENT PARTS YOU MUST GIVE UNIT, TYPE AND CATALOG NUMBER AS SHOWN ON NAMEPLATE, PLUS PART NUMBER AND NAME OF PART NEEDED

5" BENCH GRINDER

Cat No. Volts. Type Amps. RPM 7900 120 1 2.2 3400

The Black & Decker Mfg. Co. Towson, Maryland 21204

Printed in U.S.A.

BULLETIN NO. 2833

MARCH.