

WHEEL REPLACEMENT

If you must replace a wheel, be sure to obtain one with a safe rated speed at least as high as the "no load" RPM marked on your grinder's name plate and with a 1/2" center hole. 6" diameter wheels should be a maximum of 3/4" wide and 5" diameter wheels a maximum of 1/2" wide. Be sure to test new wheels for cracks and maintain the existing sequence of retaining hardware. BE SURE the tool is unplugged before attempting repairs.

ACCESSORIES

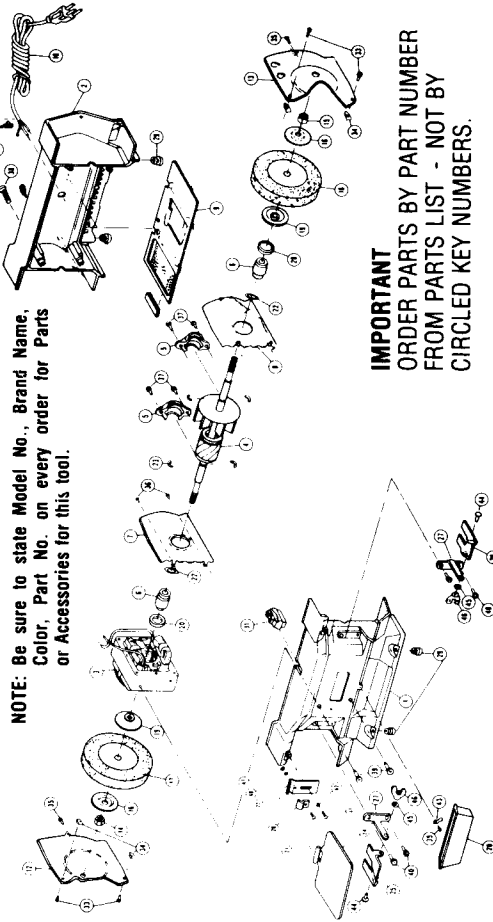
Your bench grinder will accept most polishing and buffing wheels.
WARNING: THE USE OF ANY OTHER ACCESSORIES IS NOT RECOMMENDED AND MAY RESULT IN SERIOUS INJURY.

AUTHORIZED SERVICE PROGRAM

Do not attempt the following maintenance:

- Replacing brushes
- Testing electrical system
- Inspecting or cleaning internal parts
- Any internal repairs

If your tool is out of warranty and service is required, it should be performed by an authorized service facility. Just contact your nearest JCPenney retail store or catalog desk. We'll arrange to have the tool serviced by an authorized repair facility.



NOTE: Be sure to state Model No., Brand Name, Color, Part No. on every order for Parts or Accessories for this tool.

IMPORTANT
ORDER PARTS BY PART NUMBER
FROM PARTS LIST - NOT BY
CIRCLED KEY NUMBERS.

KEY NO. PARTS LIST - 6" GRINDER JCP Int #2026A

Key	Part Number	Description	Key Part Number	Description
1	06-01380-BAF	Housing—Front	23	22-01228 Retaining Ring
2	06-01379-BAF	Housing—Rear	24	44-00471 Eye Shield
3	08-00276-001	Stator Ass'y	25	43-01294-2P Tool Rest—Left Hand
4	07-00258	Rotor Ass'y	26	43-01295-2P Tool Rest—Right Hand
5	06-01115-001	Cap—Bearing	27	43-01293-2P Bracket—Tool Rest Support
6	09-00219	Bearing—Spherical	28	44-00434 Water Tray
7	43-01148	Venturi—Fan	29	28-00185 Foot
8	43-01147	Baffle—Fan	30	11-00298 Strain Relief
9	60-00012-001	Cover Ass'y	33	22-01177 Screw—Wheel Cover
10	11-00288-B	Line Cord—3 Conductor	34	22-01025 Speed Nut—Wheel Cover
11	18-00406	Switch	35	22-00901 Screw—Water Tray & Wheel Cover Sec.
12	43-01145-BAF	Wheel Cover—Left Hand	37	22-01032 Screw—Bearing Cap Securing
13	43-01146-BAF	Wheel Cover—Right Hand	38	22-01028 Screw—Housing Securing
14	22-01031	Nut—Wheel Securing—Left Hand	39	22-01029 Stator Securing
15	22-01030	Nut—Wheel Securing—Right Hand	40	22-01033 Stator Bracket Securing
16	43-01297-2P	Wheel Washer—Outer	41	22-00377 Screw—Eye Shield Securing
17	52-00051	Grinding Wheel—Coarse	42	27-01296-MP Clip—Eye Shield Securing
18	52-00050	Grinding Wheel—Fine	43	27-00176-80 Clip—Water Tray Securing
19	06-01218-002	Wheel Washer—Inner	44	22-00887-002 Carriage Bolt—Tool Rest Securing
20	28-00187	O'Ring	45	17-00554-025 Lock Washer
21	22-00886-MP	Screw	46	22-00886-002 Wing Nut—Tool Rest
22	43-01404-MP	Spark Arrester	47	22-00009 Hex Nut
			48	17-00537 Lock Washer

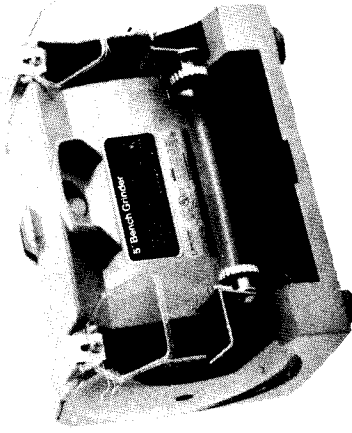
CIN 16462

41-5010

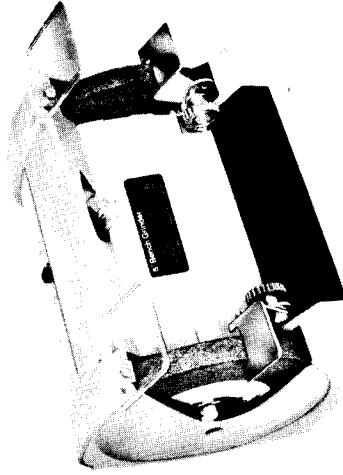
Owner's Handbook with Complete Illustrated Parts

5" and 6"
Bench Grinders

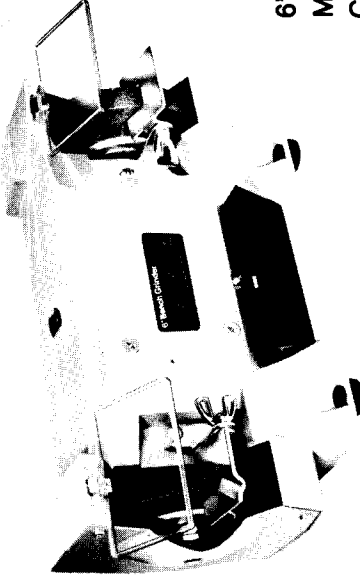
5"
Model # 2024,
Cat # 841-3890



5"
Model # 2025
Cat. # 951-1692



6"
Model # 2026A
Cat # 951-1718



Your electric tool is precision built and manufactured to satisfy the highest standards. For maximum performance, long tool life, and your safety, follow the instructions in this book carefully.

JC Penney

Form No. PGT-014

014 679

IMPORTANT:

For safe operation, read the safety rules and instructions enclosed.

5" A/D 6" BENCH GRINDERS

SAFETY RULES

1. **KNOW YOUR POWER TOOL**-read the owner's manual carefully. Learn the tool's application and limitations, as well as the specific potential hazards peculiar to it.
2. **KEEP GUARDS** in place and in working order.
3. **REMOVE ADJUSTING KEYS AND WRENCHES**. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
4. **KEEP WORK AREA CLEAN**. Cluttered areas and benches invite accidents.
5. **AVOID DANGEROUS ENVIRONMENT**. Don't use power tools in damp or wet locations, or in explosive atmospheres. Keep work area well lit.
6. **KEEP CHILDREN AWAY**. All visitors should be kept a safe distance from the work area.
7. **MAKE WORKSHOP KID PROOF** - with padlocks, master switches, or by removing starter keys.
8. **DON'T FORCE TOOL**. It will do the job better and safer at the rate for which it was designed.
9. **USE RIGHT TOOL**. Don't force tool or attachment to do a job it was not designed for.
10. **WEAR PROPER APPAREL**. No loose clothing or jewelry to get caught in moving parts. Rubber-soled footwear is recommended for best footing.
11. **USE SAFETY GLASSES**. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.
12. **SECURE WORK**. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.

13. **DON'T OVERREACH**. Keep proper footing and balance at all times.
14. **MAINTAIN TOOLS WITH CARE**. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. **DISCONNECT TOOLS** before servicing; when changing accessories such as blades, bits, cutters, etc.
16. **AVOID ACCIDENTAL STARTING**. Make sure switch is in "Off" position before plugging in.
17. **USE RECOMMENDED ACCESSORIES**. Consult the owner's manual for recommended accessories. The use of improper accessories may cause hazards.
18. **NEVER STAND ON TOOL**. Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
19. **CHECK DAMAGED PARTS**. Before further use of the tool, a guard or other part that is damaged should be carefully checked to assure that it will operate properly and perform its intended function - check for misalignment or 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.
20. **DIRECTION OF FEED**. Feed work into a blade or cutter against the direction of rotation of the blade or cutter.
21. **NEVER LEAVE TOOL RUNNING UNATTENDED**. Turn power off.
22. **REPLACE A CRACKED WHEEL IMMEDIATELY**.
23. **ALWAYS USE GUARDS AND EYE SHIELDS**.
24. **DO NOT OVER-TIGHTEN WHEEL NUT**.
25. **USE ONLY FLANGES FURNISHED WITH THIS GRINDER**.
26. **ADJUST DISTANCE BETWEEN WHEEL AND WORK REST**. Prior to each usage insure that the distance between the grinding wheel and the work rest is a 1/8" maximum.

EXTENSION CORDS

1. Use only 3 wire extension cords which have 3-prong grounding type plugs and 3 pole receptacles which accept the tool's plug. Replace or repair damaged or worn cord IMMEDIATELY.
2. Only U.L. listed extension cords should be used with these products.

3. Improper use of extension cords may cause inefficient operation of your tool which could result in overheating. Be sure your extension cord is rated to allow sufficient current flow to the motor. For the proper gauge for your tool, see chart.

NAMEPLATE AMPS.	CORD LENGTH IN FEET			
	25	50	100	150
0-3	18	18	18	18
3-6	18	18	16	16
6-8	18	16	16	12
8-10	18	16	14	12
10-12	16	14	14	12

FOR ALL GROUNDED TOOLS

This tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. It must be grounded while in use to protect the operator from electric shock. 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 that looks like that shown in Figure A. An adapter, see Figure B and C, (not to be used in Canada) is available for connecting plugs of the type shown in Figure A to two-prong receptacles. The green-colored rigid ear, lug, etc. extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

WARNING: When using grounded tools in the vicinity of ungrounded electrical devices, be sure that the ungrounded devices are in good condition. Ungrounded electrical devices may be shorted and still operate satisfactorily.

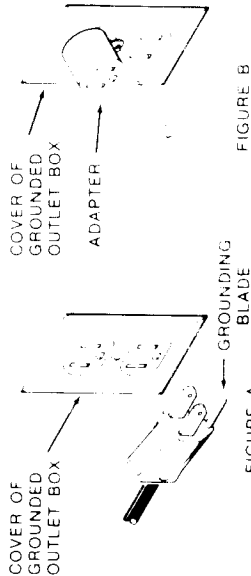


FIGURE C

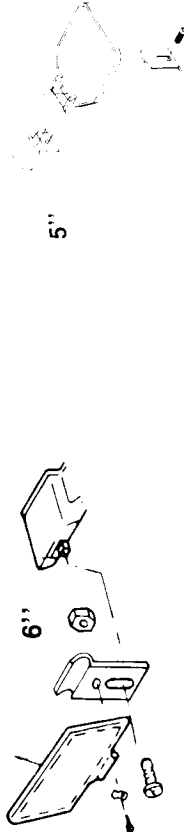
INSPECTION AND ASSEMBLY

Inspection:

To be certain the grinding wheel has not been damaged in shipment, strike the edges slightly with a metallic object. A ringing sound indicates a good wheel but a dull noise may signal a fracture. WARNING: If you suspect wheel of being fractured, REPLACE IT IMMEDIATELY. Fractured wheels may shatter, causing serious injury.

Eye Shield and Spark Arrester Assembly: (6" Only)

1. Place cylindrical boss portion of eye shield into half-round nest of spark arrester.
2. Place half-round portion of small sheet metal clamp over cylindrical boss portion of eye shield, so that holes line up and secure together with #6 screw and nut as shown.
3. Place spark arrester into recessed groove area on housing directly over each wheel. Secure in place with #8 self tapping screw through the long slot in spark arrester.
4. Adjust the spark arrester so that its lower edge is within 1/16 inch of the outside diameter of the wheel. As the wheel wears, readjust the spark arrester.



Eye Shield and Spark Arrestor Assembly (5" Only)

Place eye shield in recessed groove on housing. Place spark arrester thru slot in eye shield with the angle toward the grinder. Secure in place with #8 self tapping screw thru slot in spark arrester.

Adjust the spark arrester so that its lower edge is within 1/16 inch of the outside diameter of the wheel. As the wheel wears, readjust the spark arrester.

Tool Rest Assembly:

5" GRINDER

Place grinder on level surface with front facing you. NOTE: Be sure unit is not plugged into an electrical outlet. Place carriage bolt (21) (See Parts List) through slot in securing arm (26), then into square hole in tool rest (27). Thread knurled knob (24) thread onto bolt (21) adjust to proper position and tighten securely. Take clear plastic eyeshield (17) place screw (19) into eyeshield hole then through eyeshield spring (18) thread into upper housing hole. 6"



6" GRINDER

Place grinder on level surface with front facing you. NOTE: Be sure unit is not plugged into an electrical outlet. Attach support arms (27) with screws (40) to face of grinder housing without tightening completely. Attach tool rests (25) and (26) with carriage bolt (44), lock washer (45) and wing nut (46). Adjust both tool rests to an angle permitting free and clear rotation of the grinding wheels. Tighten bottom screw (40) in support arms (27) to the desired position. Now tighten top screw. Spin grinding wheels with your fingers to inspect clearance and tightness.

Mounting the Bench Grinder:

Mount the JCPenney Bench Grinders on a bench to prevent movement of the grinder when pressure is applied against the grinding wheels. For the JCPenney 5" Bench Grinders #2024 and #2025, use wood screws through the slots under the water tray and at the rear of the grinder housing. Always leave rubber feet in place to dampen vibration.

OPERATING

ALWAYS WEAR EYE PROTECTION WHEN USING THE GRINDER.

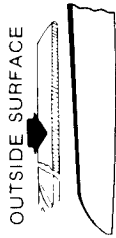
Keep a steady, moderate pressure on the work and keep it moving at an even pace for smooth grinding. Pressing too hard overheats the motor and prematurely wears down the grinding wheels, so take your time.

Note the original bevel angle on the item to be sharpened and try to maintain this shape. The grinding wheel should rotate "into" the object being sharpened. Keep the plastic water tray on the front of the housing filled with water and dip your work in it regularly to prevent overheating. Overheating can weaken metals.

The following suggestions will aid you, in sharpening specific tools.

SCISSORS

If possible, take the scissors apart to make the sharpening operation easier and safer. Remove material only from the outside surface and work from the heavy end of the blade toward tip.



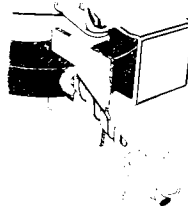
KNIVES

Remove metal from both faces of most knives working from the heavy end of the blade toward the tip.



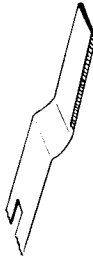
TWIST DRILL BITS

Drill bits are best sharpened on a sharpening jig available at most hardware stores, but can be "dressed up" on your bench grinder. Begin on one side of the point at the existing angle; then twist the bit while maintaining constant contact with the grinding surface. Sharpen only the tip. This technique requires considerable practice so take your time and make a few "dry runs" first with the grinder off. Be sure to maintain the original cutting edge angle as this is important to the efficiency of your bits. (The 6" grinder has a groove in the left tool rest to help guide the bit. Use this guide whenever it provides the proper angle for the bit you are sharpening.)



LAWN MOWER BLADES

Lawn mower blades are usually sharpened on only one side and dressed up slightly on the other. After sharpening, be sure to balance the blade by removing additional material from a heavy end. There are a number of inexpensive cone balances on the market for this purpose. Unbalanced blades can cause serious crankshaft damage in your lawn mower. ALWAYS remove the spark plug wire from the lawn mower before servicing blades to prevent accidental starting.



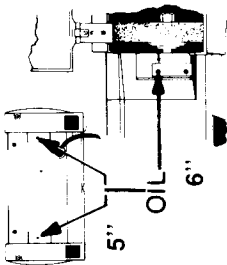
SCREWDRIVERS

The edge of a properly sharpened screwdriver will be a perfect rectangle, absolutely flat and perpendicular to the centerline of the shank. The two sides and two faces will taper outward from the edge of the shoulder or shank. They should be flat with intersecting faces perpendicular. Hold each face of the screwdriver against the wheel to true it up, then ease the end straight into the stone to grind it true.



MAINTENANCE AND LUBRICATION

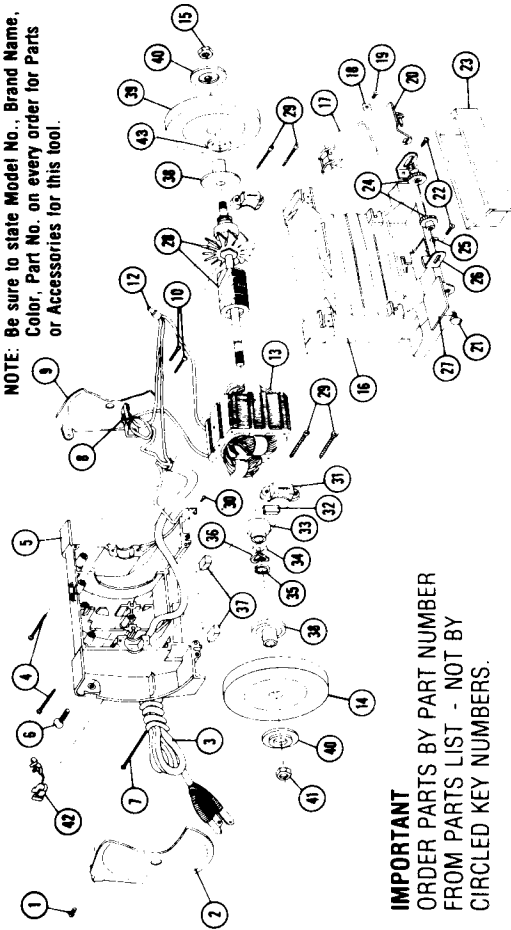
Your bench grinder is equipped with oil-impregnated, porous bronze bearings which provide their own lubrication for a long time. However, after about 50 hours of operation, this oil should be replenished by adding a few drops of clean SAE 20 oil in each of the oil holes marked on the housing. For 6" grinders, these holes are under the tool rest support bracket and on 5" grinders they are on the rear housing.



CARE OF GRINDING WHEELS

In normal use, grinding wheels may become cracked, grooved, rounded at the edges, chipped, out of true, or loaded with foreign material. Cracked wheels should be replaced IMMEDIATELY while any of the other conditions can be remedied with a dressing tool (available at most JCPenney stores). New wheels sometimes require dressing to make them round. New wheels should be safety rated at no less than the no-load RPM: (3450-6" and 3500-5") The arbor size is 1/2".

NOTE: Be sure to state Model No., Brand Name, Color, Part No. on every order for Parts or Accessories for this tool.



IMPORTANT

ORDER PARTS BY PART NUMBER FROM PARTS LIST - NOT BY CIRCLED KEY NUMBERS.

KEY NO. PARTS LIST - 5" GRINDER JCP lot #2024 or #2025

Key	Part Number	Description	Key	Part Number	Description
1	22-00901	Screw Guard Sec.	23	44-00435-001	Water Tray
2	43-01150-BAF	Wheel Guard L. H.	24	48-00073	Knob
3	11-0288-B	Power Cord	25	17-00465-001	Spacer Washer
4	22-01036	Screw Housing Sec.	26	43-01302-MP	Tool Rest Arm
5	06-01171-BAF	Main Motor Housing	27	43-01303-MP	Tool Rest L. H.
6	22-01027	Screw-Stator Sec.	28	07-00259	Rotor and Fan Assy.
7	22-00859	Screw Housing Sec.	29	22-01041	Screw Brg. Cap. Ret.
8	18-00320	Wheel Guard R. H.	30	22-00888	Screw Grounding
9	43-01149-BAF	Wheel Guard R. H.	31	06-01220-001	Bearing Ret.
10	22-00901	Screw Switch Sec.	32	28-00203-002	Bearing
11	16-00054-001	Wire Connector	33	09-00221	Spacer Washer
12	08-00294	Stator Assy. Comp.	34	17-00506	Soap Ring
13	52-00067	Wheel Fine	35	22-01022	Spring Washer
14	22-01021	Nut-Wheel-Right Hand	36	27-00162	Foot-Rubber
15	60-00114-BAF	Cover Housing	37	28-00189	Wheel Flange-Inside
16	44-00472	Eyeshield	38	45-00105	Wheel-Flange-Coarse
17	43-01480-MP	Spark Arrestor	39	52-00068	Wheel Flange-Outside
18	22-00888	Screw-Spring Sec.	40	17-00504	Nut-Wheel-Left Hand
19	43-01301-MP	Tool Rest R. H.	41	22-01020	Strain Relief
20	22-00887-001	Carriage Bolt	42	11-00298	Washer
21	22-00901	Screw-Arm Sec.	43	17-601	Wire Brush
22			44	52-92	

* Model 2024 only