

Operating Instructions and Parts Manual JBG-W Series Grinder with Wire Wheel Models JBG-6W, JBG-8W





1.0 IMPORTANT SAFETY INSTRUCTIONS

WARNING - To reduce risk of injury:

- Read and understand the entire owner's manual before attempting assembly or operation.
- 2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
- Replace warning labels if they become obscured or removed.
- 4. This bench grinder is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a bench grinder, do not use until proper training and knowledge have been obtained.
- Do not use this bench grinder for other than its intended use. If used for other purposes, JET disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
- 6. Always wear protective eye wear when operating machinery. Eye wear shall be impact resistant, protective safety glasses with side shields which comply with ANSI Z87.1 specifications. Use of eye wear which does not comply with ANSI Z87.1 specifications could result in severe injury from breakage of eye protection. (Everyday eyeglasses only have impact resistant lenses; they are NOT safety glasses.) Use the grinder's eye shields and spark guards. Also use face or dust mask if cutting operation is dusty.
- Wear proper apparel. Do not wear loose clothing, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- 8. Wear protective clothing such as apron or safety shoes, where the grinding activity presents a hazard to the operator.
- Wear ear protectors (plugs or muffs) if sound exceeds safe levels.
- Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.

- 11. Make certain the switch is in the OFF position before connecting the machine to the power supply.
- 12. Make certain the machine is properly grounded.
- Make all machine adjustments or maintenance with the machine unplugged from the power source.
- 14. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
- 15. Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately after completion of maintenance.
- 16. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine 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.
- 17. Provide for adequate space surrounding work area and non-glare, overhead lighting.
- 18. Keep the floor around the machine clean and free of scrap material, oil and grease.
- 19. Keep visitors a safe distance from the work area. Keep children away.
- 20. Make your workshop child proof with padlocks, master switches or by removing starter keys.
- 21. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
- 22. Keep proper footing and balance at all times so that you do not fall into or lean against the grinding wheel or other moving parts. Do not overreach or use excessive force to perform any machine operation.
- 23. Disconnect grinder before servicing and before changing wheels.
- Use recommended accessories. The use of improper accessories may cause risk of injury to persons.
- Turn off the machine before cleaning. Use a brush to remove chips or debris — do not use bare hands.
- 26. Never leave the grinder running unattended. Turn power off and do not leave machine until wheels come to a complete stop.

- Remove loose items and unnecessary work pieces from the area before starting the grinder.
- 28. Don't use in dangerous environment. Don't use power tools in damp or wet location, or expose them to rain. Don't use this grinder in a flammable environment. Keep work area well lighted.
- 29. Keep work area clean. Cluttered areas and benches invite accidents.
- 30. Use right tool. Don't force tool or attachment to do a job for which it was not designed.
- 31. Use proper extension cord. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Sect. 6.2, Table 2 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.
- Maintain tools with care. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- Never stand on tool. Serious injury could occur
 if the tool is tipped or if the cutting tool is
 unintentionally contacted.
- 34. Direction of feed. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- 35. Do not overtighten wheel nut.
- 36. Frequently clean grinding dust from around and beneath grinder.
- Use grinding wheels suitable for speed of grinder.
- Inspect abrasive wheels for cracks or other forms of damage. Perform a "ring test" to check wheel integrity. Do not use a faulty or damaged wheel.
- 39. Verify that maximum RPM of abrasive or wire wheel is compatible with speed of grinder. Do not remove the blotter (label) from either side of a grinding wheel.
- 40. Allow machine to reach full RPM before starting the grinding operation.
- 41. Do not crowd the work so that the wheel slows.

- 42. Tool rest should be adjusted to approximately 1/16" from wheel surface.
- 43. Do not grind on the side of a wheel; do all work on the grinding face or edge near the tool rest.
- 44. Do not grind aluminum or magnesium on the grinding wheel, as these may pose a fire/safety hazard.
- 45. Use only the flanges that are furnished with the grinder.
- 46. 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.
- Reduce the risk of unintentional starting. Make sure switch is in OFF position before plugging in.
- 48. Allow wire brushes to run at operating speed for at least one minute before using wheel. During this time no one is to stand in front of or in line with the brush.

⚠ WARNING: This product can expose you to chemicals including lead and cadmium which are known to the State of California to cause cancer and birth defects or other reproductive harm, and phthalates which are known to the State of California to cause birth defects or other reproductive harm.

▲ WARNING: Some dust, fumes and gases created by power sanding, sawing, grinding, drilling, welding and other construction activities contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are:

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

Your risk of exposure 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 dust masks that are specifically designed to filter out microscopic particles.

-- SAVE THESE INSTRUCTIONS --

2.0 Table of contents

Section	Page
1.0 IMPORTANT SAFETY INSTRUCTIONS	2
2.0 Table of contents	4
3.0 About this manual	
4.0 Specifications for JBG-6W, JBG-8W Bench Grinders	6
4.1 Mounting hole dimensions	
5.0 Setup and assembly	
5.1 Unpacking	
5.2 Carton contents	
5.3 Tools required for assembly	
5.4 Securing the grinder	9
5.5 Assembling eye shield brackets to spark guards	
5.6 Installing spark guard/bracket	
5.7 Eye shield	
5.8 Tool rest	
5.9 Dust port	
6.0 Electrical connections	
6.1 GROUNDING INSTRUCTIONS	
6.2 Extension cords	
7.0 Operation	
7.1 On/Off Switch	
7.2 Precautions	
8.0 Adjustments	
8.1 Eye Shield Tilt Adjustment	
8.2 Spark Guard	
8.3 Tool Rest	
9.0 User-maintenance	
9.1 Ring Test	
9.2 Care of Grinding Wheels	
9.3 Changing Wheels	
9.4 Wheel balancing	
9.5 Dressing the wheels	
9.6 Cleaning	
9.7 Lubrication	
9.8 Additional servicing	
10.0 Troubleshooting JBG-6W, JBG-8W Bench Grinders	
11.0 Optional accessories	
12.0 Replacement Parts	
12.1.1 JBG-W series Grinder with Wire Wheel – Exploded View	
12.1.2 JBG-6W, JBG-8W Grinders – Parts List	
13.0 Wiring Diagram for JBG-6W, JBG-8W Grinders	21

3.0 About this manual

This manual is provided by JET, covering the safe operation and maintenance procedures for a JET Model JBG-W series Bench Grinder with Wire Wheel. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. This tool has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions set forth in this document.

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

AWARNINGRead and understand the entire contents of this manual before attempting assembly or operation! Failure to comply may cause serious injury!

Familiarize yourself with the following safety notices used in this manual:

This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

AWARNING This means that if precautions are not heeded, it may result in serious, or possibly even fatal, injury.

4.0 Specifications for JBG-6W, JBG-8W Bench Grinders

Table 1

Stock number	577126	577128	
Model number	JBG-6W	JBG-8W	
Motor and Electricals			
Motor type	induction, capacitor s	tart, centrifugal switch	
Horsepower	1/2 HP 1 HP		
Phase	sin	gle	
Voltage	119	5 V	
Cycle	60	Hz	
Listed FLA (full load amps)	5.0 A	8.0 A	
Start capacitor	100MFD 125VAC	200MFD 125VAC	
Motor speed	3,450	RPM	
On/off switch	rocker style	toggle style	
Power transfer	Direct	t drive	
Power cord	SJT 18AWG x 3C, 300V, 6 ft.	SJT 16AWG x 3C, 300V, 6 ft.	
Power plug installed		25V/15A	
Recommended circuit size ¹	·	5A	
Sound emission ²	75dB at 3ft.	without load	
Arbor and wheels			
Arbor diameter	1/2 in.	5/8 in.	
Grinding wheel size (O.D. x width x bore)	6 x 3/4 x 1/2 in.	8 x 1 x 5/8 in.	
Grinding wheel provided	36 grit, alun	ninum oxide	
Wheel bore	1/2 in.	5/8 in.	
Wire wheel size (O.D. x width x bore)	6 x 1/2 x 1/2 in.	8 x 1/2 x 5/8 in.	
Wire wheel material	Steel wire with	plated copper	
Wheel flange diameter	2 in. (50.8 mm)	2-3/4 in. (70 mm)	
Wheel speed	3,450 RPM		
Arbor nut maximum tightening torque	20 lbf-ft (270kgf-cm)		
Tool rest distance to wheel	adjus	stable	
Main materials			
Arbor	ste	eel	
Base	cast	iron	
Motor housing	cast	iron	
Inner wheel guard	cast	iron	
Outer wheel guard	alum	inum	
Wheel flanges	sheet	metal	
Tool rest	cast	iron	
Eye shield	clear poly	carbonate	
Spark guard	ste	eel	
Knob	poly	mide	
Dust/swarf collection			
Dust port outside diameter	2 in. (50	0.8 mm)	
Recommended minimum extraction volume	350	CFM	
General dimensions			
Footprint (LxW)	7-5/8 x 5-1/2 in. (194 x 140 mm)	8-7/16 x 6-5/16 in. (214 x 160 mm)	
Overall dimensions assembled (LxWxH)	13-1/2 x 11 x 10-5/8 in. (343 x 280 x 270 mm)	18-1/2 x 13 x 12 in. (469 x 330 x 305 mm)	
Shipping dimensions (LxWxH)	19-11/16 x 12-3/16 x 11-11/16 in. (500 x 310 x 297 mm)	22-1/4 x 14-3/8 x 13-1/8 in. (565 x 365 x 333 mm)	

Weights		
Net weight (approx.)	32 lb. (14.40 kg)	54 lb. (24.56 kg)
Shipping weight (approx.)	35 lb. (15.85 kg)	58 lb. (26.50 kg)

¹ subject to local and national electrical codes.

L = length, W = width, H = height

O.D. = outside diameter

CFM = cubic feet per minute

The specifications in this manual were current at time of publication, but because of our policy of continuous improvement, JET reserves the right to change specifications at any time and without prior notice, without incurring obligations.

4.1 Mounting hole dimensions

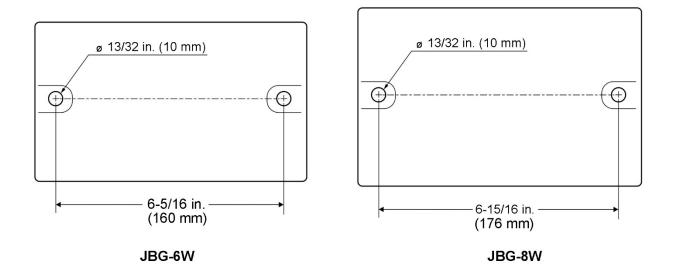


Figure 4-1: hole centers

² The specified values are emission levels and are not necessarily to be seen as safe operating levels. As workplace conditions vary, this information is intended to allow the user to make a better estimation of the hazards and risks involved only.

5.0 Setup and assembly

5.1 Unpacking

Separate all parts from the packing material. Check each part against sect. 5.2, Carton contents, and make certain that all items are accounted for. (Check grinder first to verify if any parts have been pre-mounted.) Notify your dealer or JET if parts are missing or there is shipping damage. Do not discard packing material until grinder is assembled and operating properly.

5.2 Carton contents

Refer to Figure 5-1.

- 1 Bench Grinder with wheels (not shown)
- 1 Spark guard, left A
- 2 Lock knobs **B**
- 1 Spark guard, right C
- 1 Eye shield bracket, left D
- 2 Truss head screws, 1/4 x 1/2 E
- 1 Eye shield bracket, right F
- 2 Eye shield plates G
- 4 Hex cap screws, 5/16 x 3/4 **H**
- 4 Flat washers, 5/16 − **J**
- 4 Pan head screws, 3/16 x 3/8 **K**
- 4 Hex cap screws $1/4 \times 3/8 L$
- 6 Flat Washers 1/4 M
- 2 Lock Washers 1/4 N
- 1 Tool rest, left O
- 1 Tool rest, right P
- 2 Eye shields **R**
- 1 Operating Instructions and Parts Manual
- 1 Product registration card

5.3 Tools required for assembly

10mm and 12mm, or adjustable, wrench #1 or #2 cross-point (Phillips) screwdriver

The JBG-W series Grinder requires only assembly of eye shields and tool rests. Additional tools may be needed for fastening the grinder to a workbench or stand. For your safety, do not plug the grinder into a power source until all assembly and adjustments are complete.

AWARNING

Be sure that grinder is unplugged and power switch is in OFF position. Do not plug in grinder to power until it is inspected for shipping damage and fully assembled. Failure to comply may cause serious injury.

AWARNING

Do not operate grinder without all guards and shields in place and in working order. Failure to comply may cause serious injury.

AWARNING Chipped or cracked wheels can break up and cause serious damage to grinder and/or severe injury to operator. Regularly inspect wheels for damage.

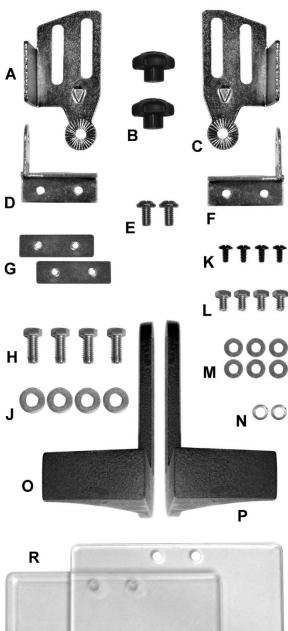




Figure 5-1: carton contents

5.4 Securing the grinder

To prevent the grinder from moving during operation, it should be securely mounted to a work surface or grinder stand. Fasteners for mounting are not included with the grinder.

- 1. Align the mounting holes on grinder with predrilled holes in a bench or grinder stand. Figure 4-1 shows hole centers for mounting.
- 2. Insert 3/8-in. (or 10mm) bolts through the holes and tighten, using washers and nuts.

An optional pedestal stand (not included) is available from JET for your grinder. See sect. 11.0.

5.5 Assembling eye shield brackets to spark guards

Refer to Figure 5-2.

Note: Spark guards (A/C) and eye shield brackets (D/F) are marked **L** for left side assembly and **R** for right side assembly.

- Assemble left spark guard and eye shield bracket using Figure 5-2 as a guide. Make sure spark guard and bracket are marked L.
- Assemble right side components in similar manner.

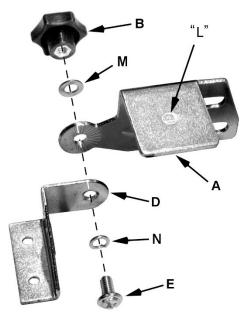


Figure 5-2: bracket to spark guard

5.6 Installing spark guard/bracket

Refer to Figure 5-3.

- Install left spark guard and mounting bracket assembly to left wheel housing with two 1/4" x 3/8" hex cap screws (L) and two 1/4" flat washers (M).
- 2. The spark guard (A₁) should be adjusted to within 1/16" of the grinding wheel surface or other accessory being used. As the wheel

- wears down, the spark guard must be readjusted to maintain this 1/16" distance.
- 3. Install right spark guard and mounting bracket in similar manner.

5.7 Eye shield

Refer to Figure 5-3.

The eye shields are identical and will fit on either side of grinder.

Insert two 3/16 x 3/8 pan head screws (K) through bracket, eye shield (R), and plate (G) which contains threaded mounting holes. Tighten screws.

5.8 **Tool rest**

Refer to Figure 5-3.

There is a left and a right tool rest. Refer to Figure 5-3 to ensure proper orientation.

- Install left tool rest (O) by inserting two 5/16 x 3/4 hex cap screws (H) through two 5/16 flat washers (J), and tool rest, into wheel housing.
- The tool rest should be adjusted to within 1/16" of the grinding wheel or other accessories being used. As the wheel wears down, the tool rest must be readjusted to maintain a maximum 1/16" clearance.
- 3. Assemble right tool rest in similar manner.

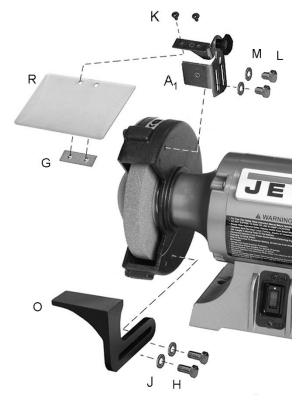


Figure 5-3: guard and tool rest

5.9 Dust port

It is recommended that a metalworking dust collection system be connected to the grinder's dust port, using a 2-in. diameter hose with hose clamp (not provided).

6.0 Electrical connections

AWARNING Electrical connections must be made by a qualified electrician in compliance with all relevant codes. This tool must be properly grounded. Failure to comply may result in serious injury.

The models **JBG-6W** and **JBG-8W** Bench Grinders are prewired for 115V power, and are supplied with a plug designed for use on a circuit with a grounded outlet that looks like the one pictured in A, Figure 6-1.

Before connecting to power source, be sure switch is in *off* position.

It is recommended that the grinder be connected to a 15 amp circuit with circuit breaker or fuse. **Local codes take precedence over recommendations.**

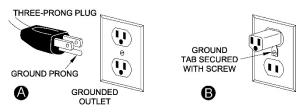


Figure 6-1: plug configuration

6.1 GROUNDING INSTRUCTIONS

1. All Grounded, Cord-connected Tools:

This tool must be grounded. 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 a 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.

AWARNING Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded. Failure to comply may cause serious or fatal injury.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

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 circuit that has an outlet that looks like the one illustrated in **A**, Figure 6-1. An adapter, shown in **B** and **C**, may be used to connect this plug to a 2-pole receptacle as shown in **B** if a properly grounded outlet is not available. 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, and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box. In Canada, the use of a temporary adaptor is not permitted by the Canadian Electrical Code, C22.1.

6.2 Extension cords

The use of extension cords is discouraged. Try to position equipment near the power source. If an extension cord becomes necessary, use only three-wire extension cords that have three-prong grounding type plugs and three-prong receptacles that accept the tool's plug. Replace or repair damaged or worn cord immediately.

Make sure your extension cord is good condition, and is heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

Table 2 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number (AWG), the heavier the cord.

Amper Rating		Volts	Tota cord	l length in feet	n of	
More	Not	120	25	50	100	150
Than More Than			AWG			
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recomi	mended

Extension Cord Recommendations Table 2

7.0 Operation

Always use approved safety glasses or face shield. Failure to comply may cause serious injury.

A bench grinder is designed for hand-grinding operations such as sharpening chisels, screwdrivers, drill bits, removing excess metal, and smoothing and polishing metal surfaces.

A Medium Grain Abrasive Wheel is suitable for rough grinding where a considerable amount of metal must be removed or when obtaining a smooth finish is not important. A Fine Grain Abrasive Wheel should be used for sharpening tools or grinding to close size tolerances because it removes metal more gradually for precision grinding and gives work a smooth finish.

Wire brushing provides a fast way to remove rust scale, burrs, and point from metal. Use coarse wire brushes for hard cleaning jobs. Use fine wire brushes for polishing and finish work. When brush tips become dull, reverse the brush on the grinder.

7.1 On/Off Switch

When grinder is turned off, the wheel may take a few moments to completely stop.

Press rocker or toggle switch to start and stop grinder.

Note: After extended operation, the grinder housing may be warm to the touch. This is not abnormal.

7.2 Precautions

7.2.1 Wheel grinding

- Before starting grinder, turn wheels by hand to verify they are clear of obstructions and turn freely. The tool rests and spark guards should not touch the wheel.
- Keep tool rest and spark guard to within 1/16" of grinding wheel.
- 3. Turn on grinder and allow it to reach full running speed before starting to grind.
- 4. Adjust the eye shields as needed.
- 5. Keep a steady, moderate pressure on the workpiece and keep it moving at an even pace for smooth grinding. Pressing too hard overheats the motor and prematurely wears the grinding wheel. Note the original bevel angle on the item to be sharpened and try to maintain the same shape. The grinding wheel should rotate into the object being sharpened.
- 6. If grinding a narrow workpiece, slide it laterally across width of wheel. Using full width of wheel

- will help prevent a groove from forming at one place on the wheel.
- Keep a tray filled with water and dip your work into it regularly to prevent overheating. Overheating can weaken metals. Do not apply water directly to a grinding wheel.
- 8. Do not use the side of the grinding wheel; this puts dangerous stress on the wheel.
- When wheel becomes loaded or dull, use an approved grinding wheel dresser and dress the wheel face.

8.0 Adjustments

8.1 Eye Shield Tilt Adjustment

- 1. Loosen lock knob (A₁, Figure 8-1).
- 2. Adjust eye shield (A₂) to desired tilt angle.
- 3. Tighten lock knob (A₁).



Figure 8-1: eye shield adjustment

8.2 Spark Guard

As the wheel wears down, the spark guard must be re-adjusted to maintain a maximum 1/16" distance.

Refer to Figure 8-1.

- 1. Loosen two hex cap screws (B₁).
- 2. Slide spark guard (B₂) to 1/16" distance from grinding wheel surface.
- 3. Tighten screws (B₁).

8.3 Tool Rest

As the wheel wears down, the tool rest must be readjusted to maintain a maximum 1/16" distance.

Refer to Figure 8-1.

- 1. Loosen two hex cap screws (C₁).
- Slide tool rest (C₂) to within 1/16" from grinding wheel.
- 3. Tighten screws (C₁).

9.0 User-maintenance

For safety, turn switch to OFF and remove plug from power source outlet before adjusting or performing maintenance on the bench grinder.

If the power cord is worn, cut or damaged in any way, have it replaced immediately.

9.1 Ring Test

Before replacing a grinding wheel, perform this simple test on the replacement wheel:

- 1. Loop a piece of string through the grinding wheel hole and suspend the wheel by holding up the string.
- Tap the wheel with a piece of scrap wood or wooden dowel.
- 3. A good wheel will "ring"; a defective wheel will "thud". Discard any wheel that does not "ring".

An internal defect may not be apparent by visual inspection alone. The ring test may identify an internal crack or void.

9.2 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.

A cracked wheel should be replaced IMMEDIATELY. The other conditions can be remedied with a dressing tool. New wheels sometimes require dressing to make them round. See sect. 9.5.

9.3 Changing Wheels

The JET bench grinder comes equipped with a general purpose grinding wheel. Wheels vary according to types of abrasive, hardness, grit size, and structure. Contact your local distributor for the proper grinding wheel or wire wheel for your application.

If you replace a wheel, obtain one with a safe rated speed at least as high as the NO LOAD RPM marked on the grinder's nameplate. Refer to Table 3 to determine correct dimensions for the replacement wheel.

Model	Wheel Diameter	Maximum Width	Center Hole
JBG-6W	6"	3/4"	1/2"
JBG-8W	8"	1"	5/8"

Table 3

Your bench grinder will accept most polishing and buffing wheels available at dealers and hardware stores.

AWARNING The use of any other accessory is not recommended and may result in serious injury!

To change a wheel (see Figure 9-1):

- 1. Disconnect grinder from power source.
- Loosen spark guard (A) and tool rest (B) and move them away from wheel.
- 3. Remove wheel guard using a screwdriver.
- Stabilize wheel by holding opposite wheel firmly, or placing a wood wedge between wheel and tool rest.
- 5. Unscrew arbor nut (C) with wrench. **NOTE**: Left wheel nut has left-hand threads; turn nut *clockwise* to loosen. Right wire wheel nut has right-hand threads; turn nut counterclockwise to loosen.
- 6. Remove outer flange (D), wheel (E), and inner flange.
- 7. Clean flanges. Check the flanges to make sure they are flat. Wheel flanges that are not flat will cause the wheel to wobble.

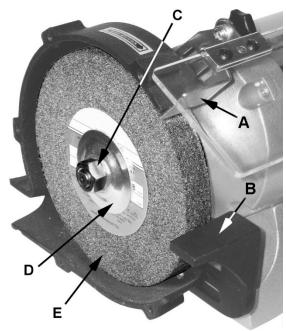


Figure 9-1: wheel replacement

- 8. Inspect the new grinding wheel and perform a "ring test" (sect. 9.1). Do not install a damaged wheel.
- 9. Install inner flange, wheel (E), outer flange (D) and nut (C) on the shaft. Tighten nut.

MCAUTION Do not overtighten nut; this may cause wheel to crack. Maximum safe torque on nut is 20 lbf-ft (270 kgf-cm).

10. Reinstall guard cover. Adjust spark guard and tool rest to 1/16" clearance from wheel.

9.4 Wheel balancing

With the grinder **unplugged from the power source**, and the arbor nut snugged down, rotate wheel by hand and observe its motion.

A grinding wheel has proper balance when:

- The wheel's outside face spins true and round; that is, its circumference rotates concentric to the arbor.
- 2. There is no side-to-side wobble.

The operator who takes time to patiently perform needed adjustments will be rewarded by a wheel running true, and accurate grinding of work pieces.

9.4.1 Adjusting concentricity

If the outside face is not rotating concentric to arbor, try shifting the wheel closer to arbor centerline before tightening the nut.

Another method of achieving concentricity is the use of a wheel dresser. "Dressing" is the removal of the current layer of abrasive to expose a fresh surface. A wheel dresser is also used to "true" a wheel; that is, to make the grinding surface parallel to the tool rest, so the entire wheel face presents an even surface to the work piece. Proper use of a wheel dresser will eliminate high spots and result in concentric rotation about the arbor, as well as minimize vibration. See sect. 9.5.

9.4.2 Correcting side-to-side wobble

The JBG-W Grinder has large, machined flanges, making wobble unlikely if a good quality grinding wheel is used. Should a wheel exhibit need for adjustment:

- Loosen nut and rotate outer flange a small amount. Snug the nut and spin the wheel by hand to check.
- If wobble still exists, continue repeating step 1, rotating outer flange incrementally in the same direction. See Figure 9-2. Make sure to keep the wheel in same position each time.
- If complete rotation of outer flange has proved ineffective, remove nut, outer flange, and wheel (keep wheel in same orientation by placing a pencil mark somewhere on it for reference).

- Then rotate inner flange about 90° and repeat the above steps for outer flange.
- 4. Continue this combination of flange movements until the wobble is eliminated.

If required, a shim made of paper or card stock may be placed between flange and wheel.



Figure 9-2: wheel balancing

NOTE: Very slight wobble may still exist at spin-up and spin-down, but will not affect normal speed operation.

9.5 Dressing the wheels

Below is a general procedure for dressing a grinding wheel. Always consult the wheel dresser manufacturer's instructions for specific information pertaining to the tool.

MCAUTION Use safety glasses or face shield during dressing operations.

- Back off the tool rest enough to allow the dresser to hook over its inside edge (see Figure 9-3). Tighten tool rest in position.
- Turn on grinder and allow it to reach operating speed.
- 3. Set wheel dresser on tool rest and bring it into contact with wheel by raising its handle. Hold the dresser firmly.

Note: If sparks appear, increase the pressure of the dresser discs against the wheel.

- Move dresser evenly left and right across wheel face until wheel looks clean and is square to tool rest.
- Remove dresser, and adjust tool rest to 1/16" away from the newly dressed wheel.

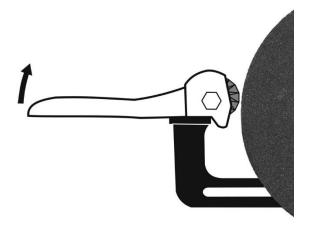


Figure 9-3: wheel dressing

9.6 Cleaning

Metal shavings may still be hot from recent grinding operations. Make sure shavings and debris are cold before cleaning the grinder.

Avoid use of the following cleaning chemicals or solvents: gasoline, carbon tetrachloride, chlorinated solvents, ammonia and household detergents containing ammonia.

Brush all shavings from motor housing, tool rest, and wheel guard. Check grinding wheel for cracks and chips. Replace if damaged.

9.7 Lubrication

All motor bearings are permanently lubricated and sealed at the factory and require no additional lubrication.

9.8 Additional servicing

Any other servicing should be performed by an authorized service representative.

10.0 Troubleshooting JBG-6W, JBG-8W Bench Grinders

Table 4

Symptom	Possible Cause	Correction *
Motor will not start.	Not connected to power source.	Verify that switch is on and plug is properly inserted into receptacle.
	Motor cord cut or abraded.	Replace with new cord.
	Wheels cannot rotate because of obstruction.	Unplug and turn grinding wheel by hand to ensure free movement. Restart.
	Plug on cord is faulty.	Replace with new plug.
	Low line voltage.	Check power line for proper voltage.
	Fuse blown or circuit breaker tripped.	Re-set. May be too many machines on one line; use dedicated line if needed.
	Faulty switch.	Replace switch.
	Faulty capacitor.	Replace capacitor.
	Open circuit in motor or loose connection.	Inspect all lead connections on motor for loose or open connections.
	Motor fault.	Contact JET technical service.
Motor will not start; fuses blow or circuit	Too many machines running on same circuit.	Turn off other machines and try again. Use dedicated circuit if needed.
breakers trip.	Incorrect fuse.	Try time delay fuse, or go to circuit with higher rated fuse or circuit breaker.
	Wheels cannot rotate because of obstruction.	Unplug and turn grinding wheel by hand to ensure free movement. Clear any obstructions and restart.
	Undersized extension cord.	Use correct size extension cord.
	Short circuit in line cord or plug.	Inspect cord or plug for damaged insulation and shorted wires.
	Short circuit in motor or loose connections.	Inspect all connections on motor for loose or shorted terminals or worn insulation.
Motor fails to develop full power.	Low line voltage.	Check power line for proper voltage.
iuli power.	Capacitor or motor failure.	Contact JET technical service.
Motor overheats.	Motor overloaded.	Reduce pressure against wheel. Make sure grit size is appropriate for the job.
	Poor motor ventilation.	Unplug and clean out around motor; provide better air circulation.
	Capacitor or motor failure.	Contact JET technical service.
Motor stalls, resulting in blown fuses or	Motor overloaded.	Reduce load on motor; do not press so hard when grinding.
tripped circuit.	Capacitor or motor failure.	Contact JET technical service.
	Short circuit in motor or loose connections.	Inspect connections on motor for loose or shorted terminals or worn insulation.
	Low voltage.	Correct low voltage conditions.
	Incorrect fuses or circuit breakers in power line.	Install correct fuses or circuit breakers.
Motor slows.	Motor overloaded.	Reduce load on motor; do not press so hard when grinding.
	Low line voltage.	Check power line for proper voltage.
	Loose connections.	Inspect and remedy.

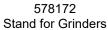
Symptom	Possible Cause	Correction *
Frequent fuse or circuit breaker failure.	Motor overload.	Reduce load on motor; do not press so hard when grinding.
	Electrical circuit overload; too many machines running on same circuit.	Turn off other machines and try again. Use dedicated circuit if needed.
	Incorrect fuse or circuit breaker.	Have electrician upgrade service to outlet.
Excessive vibration.	Wheel(s) out of balance; wobbling or not rotating concentric to arbor.	Dress wheel or replace it. Adjust wheel imbalance according to instructions in this manual.
	Improper mounting.	Secure grinder firmly to bench or stand.

^{*} **WARNING:** Some corrections may required a qualified electrician.

11.0 Optional accessories

These accessory items, purchased separately, are available for your JET bench grinder. Contact your dealer to order, or call JET at the phone number on the cover.







578173

Deluxe Stand for Grinders



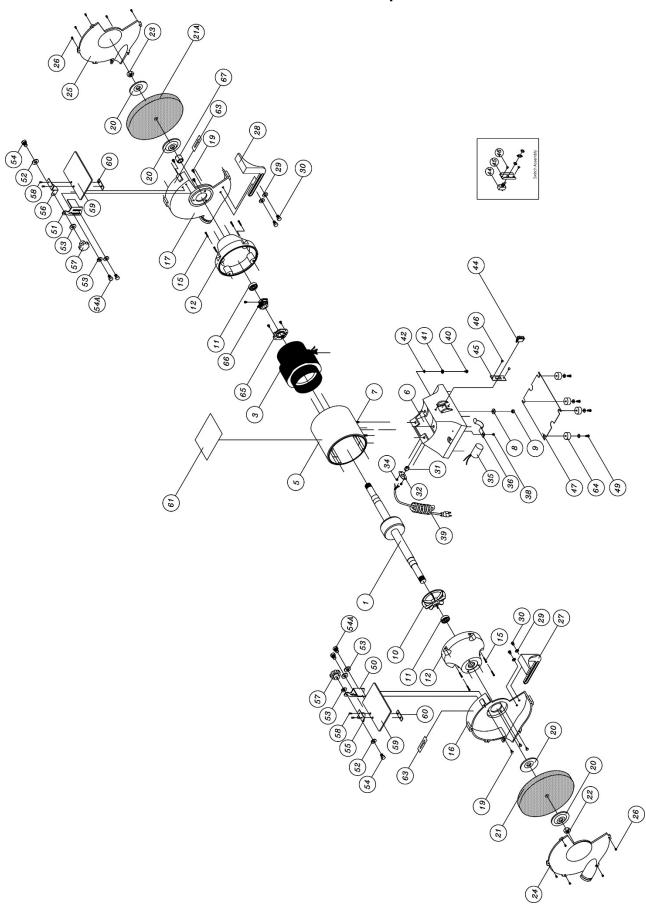
IBG8-54 Wheel Dresser, Ø 1-1/4"

The following accessories are for using the Grinder with the JET #414800 (JDCS-505) Dust Collection Stand:

414820 Reducer, 3 in. to 2 in.

414812 0.6M Hose, Heat Resistant, ø2 x 24.4 in.

12.1.1 JBG-W series Grinder with Wire Wheel – Exploded View



12.1.2 **JBG-6W**, **JBG-8W Grinders – Parts List**

1	Index No		Description	Size	Qty
3					
BIGSA-03					
5 JBG8A-05G Motor Housing 1 6 JBG8A-06G Base 1 7 JBG8A-06G Base 1 7 JBG8A-07 Cross Screw 1/4 x 7/8 4 8 TS-0720071 Lock Washer 1/4 4 9 TS-061011 Hex Nut 1/4 4 10 JBG8A-10 Fan 1 1 11 BB-6204ZZ Ball Bearing (JBG-6A) 2 2 BB-6204ZZ Ball Bearing (JBG-8A) 2 2 JBG8A-12G Cover 2 2 JBG8A-12G Cover 2 15 JBG8A-12G Cover 2 JBG8A-16 5 Crew 2 16 JBG8A-15 Screw 3/16 x 5/8 4 4 16 JBG8A-16 Inner Wheel Guard – left 1 1 1 1 JBG8A-18 Inner Wheel Guard – left 1 1 1 JBG8A-18 Inner Wheel Guard – left 1 1<					
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12		.BB-6204ZZ	. Ball Bearing (JBG-8A)		2
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38 JBG6A-38 Screw 3/16 x 1/4 1 39 JBG6A-39 Power Cord 1 JBG8A-39 Power Cord 1 40 JBG6A-40 Cross Screw 3/16 x 3/8 1 41 JBG6A-41 Star Washer 3/16 1 42 JBG6A-42 Clip 1					
39 JBG6A-39 Power Cord 1					
JBG8A-39 Power Cord 1 40 JBG6A-40 Cross Screw 3/16 x 3/8 1 41 JBG6A-41 Star Washer 3/16 1 42 JBG6A-42 Clip 1					
40 JBG6A-40 Cross Screw 3/16 x 3/8 1 41 JBG6A-41 Star Washer 3/16 1 42 JBG6A-42 Clip 1					
41 JBG6A-41 3/16 1 42 JBG6A-42 Clip 1					
42JBG6A-42Clip					
JBG8A-42Clip	42	.JBG6A-42	. Clip		1
		.JBG8A-42	. Clip		1

Index No	Part No	Description	Size	Qty
44	JBG6A-44	Rocker Switch		1
	JBG8A-44	Toggle Switch		1
		Switch Plate		
	JBG8A-45	Switch Plate		1
46	JBG6A-46	Screw	3/16 x 1/4	2
47	JBG6A-47	Base Plate		1
	JBG8A-47	Base Plate		1
49	JBG6A-49	Cross Screw	3/16 x 1/2	4
	JBG8A-49	Cross Screw	3/16 x 1/2	4
50	JBG8A-50	Spark Guard – left		1
51	JBG8A-51	Spark Guard – right		1
		Lock Washer		
53	TS-0680021	Flat Washer	1/4	6
54	JBG6A-54	Cross Screw	1/4 x 1/2	2
		Cross Screw		
55	JBG8A-55	Eye Shield Bracket – left		1
		Eye Shield Bracket – right		
57	JBG6A-57	Lock Knob	1/4	2
58	JBG6A-58	Cross Screw	3/16 x 3/8	4
		Eye Shield		
		Eye Shield Assembly (includes #50 thru 60, LH ar		
		Eye Shield Plate		
		Identification Label, JBG-6W		
		Identification Label, JBG-8W		
		Direction Label		
		Rubber Foot		
		Switch Seat		
		Switch Seat		
		Centrifugal Start Switch		
		Centrifugal Start Switch		
67	JBG6W-67	Bushing		1
	JBG8W-67	Bushing		1

13.0 Wiring Diagram for JBG-6W, JBG-8W Grinders

