



Operating Instructions and Parts Manual

8-inch Bench Grinder with LED Lights

Model JWBG-8HS



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1.0 Table of Contents

Section	Page
1.0 Table of Contents	2
2.0 Safety Warnings	3
3.0 About This Machine and Manual	5
4.0 Product Identification	6
5.0 Specifications	7
6.0 Setup and Assembly	8
6.1 Unpacking	8
6.2 Assembly and Adjustments	9
6.3 Grinding Wheel Selection	11
6.4 Ring Test	11
6.5 Wheel Balancing	11
7.0 Electrical Connections	12
7.1 Grounding Instructions	12
7.2 Extension Cords	12
8.0 Operation	13
8.1 Sharpening Lawn Mower Blades	13
8.2 Sharpening Chisels & Flathead Screwdrivers	14
8.3 Sharpening Drill Bits	14
8.4 Sharpening Knives	14
8.5 Sharpening Scissors	14
9.0 Maintenance	14
9.1 General Cleaning and Maintenance	14
9.2 Power Cord Replacement	15
9.3 Care of Grinding Wheels	15
9.4 Changing the Grinding Wheel	15
9.5 Using a Wire or Buffing Wheel	16
9.6 Storage	16
9.7 Lubrication	16
10.0 Optional Accessory	16
11.0 Troubleshooting the JWBG-8HS	17
12.0 Replacement Parts	18
12.1.1 JWBG-8HS Bench Grinder – Exploded View	18
12.1.2 JWBG-8HS Bench Grinder – Parts List	19
13.0 Electrical Diagram	20
14.0 Warranty and Service	21



2.0 Safety Warnings

1. 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.
3. Replace warning labels if they become obscured or removed.
4. Do not use this grinder for anything other than its intended use. If used for other purposes, JET disclaims any express or implied warranty and holds itself harmless from any injury that may result from that use.
5. Always use the grinder's eye shields. In addition, wear ANSI Z87.1-approved safety glasses or a face shield. (Everyday eyeglasses only have impact-resistant lenses; they are NOT safety glasses.)
6. Before operating the grinder, remove ties, rings, watches, and other jewelry, and roll up sleeves past the elbows. Do not wear loose-fitting clothing. Confine long hair.
7. Wear protective clothing, such as an apron or safety shoes, when the grinding activity poses a hazard to the operator.
8. Wear ear protectors (plugs or muffs) if the particular work requires it.
9. Do not operate this machine while tired or under the influence of drugs, alcohol, or any medication.
10. Make certain the ON/OFF switch is in the OFF position before connecting the machine to the power supply.
11. Do not use the grinder if the ON/OFF switch does not turn it on and off.
12. Make certain the machine is properly grounded.
13. Unplug the grinder from the power source before adjusting, performing maintenance, or changing abrasive wheels.
14. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
15. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the grinder before turning it on.
16. When operating a power tool outdoors, use an extension cord suitable for outdoor use.
17. If operating a power tool in a damp location is unavoidable, use a ground-fault circuit interrupter GFCI - protected supply.
18. Keep safety guards in place at all times when the machine is in use. If removed for maintenance, use extreme caution and replace the guards immediately after maintenance is complete.
19. Check damaged parts. Before further use of the machine, any guard or other damaged part should be carefully checked to ensure it will operate properly and perform its intended function. Check for alignment of moving parts, binding, breakage, mounting, and any other conditions that may affect its operation. A guard or any other damaged part should be properly repaired or replaced.
20. Provide adequate space surrounding the work area and non-glare, overhead lighting.
21. Keep the floor around the machine clean and free of scrap material, oil, and grease.
22. Keep visitors a safe distance from the work area. **Keep children away.**
23. Make your workshop child-proof with padlocks, master switches, or by removing starter keys.
24. Give your work your undivided attention. Looking around, carrying on a conversation, and "horseplay" are careless acts that can result in serious injury.
25. Maintain a balanced stance at all times so that you do not fall into the tool or other moving parts. Do not overreach or use excessive force when operating any machine.
26. Use recommended accessories. The use of improper accessories may cause risk of injury to persons.
27. Turn off and unplug the machine before cleaning. Use a brush or compressed air to remove chips or debris — do not use your hands.
28. Never leave the grinder running unattended. Turn power off and do not leave machine until wheels come to a complete stop.
29. Have your power tool serviced by a qualified repair person using only JET replacement parts shown in this manual.
30. Remove loose items and unnecessary workpieces from the area before starting the grinder.

31. Do not use the grinder in dangerous environments. Do not use power tools in damp or wet locations or expose them to rain. Keep the work area well-lit.
32. Inspect abrasive wheels for cracks or other forms of damage. Perform a "ring test" to check wheel integrity (see *Section 6.4 Ring Test*). Do not use a faulty or damaged wheel.
33. Verify that the maximum RPM of the abrasive wheels is compatible with the grinder's speed.
34. Allow abrasive wheels to reach full RPM before starting the grinding operation.
35. Do not force the workpiece against the wheel so hard that the wheel slows.
36. Adjust the work rest to be 1/16 to 1/8-inch from the wheel surface.
37. Do not grind on the side of the wheel; do all work on the grinding face or edge near the work rest.
38. Do not grind aluminum or magnesium, as these may pose a fire hazard.

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

 CAUTION

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

 WARNING

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

3.0 About This Machine and Manual

The JET JWBG-8HS Bench Grinder with LED Lights is designed primarily for woodworkers. This machine is used for grinding and sharpening common tool steels – lathe turning chisels, gouges, knives, plane irons, carving tools, and more. The large work rests are adjustable. A spark deflector and polycarbonate eye shield help provide protection. Personal eye protection is still required. Rubber foot pads prevent sliding. Alternatively, mounting holes are provided in the base for securing the unit to a bench or stand.

This manual covers the safe operation and maintenance procedures for the JET Model JWBG-8HS Bench Grinder with LED Lights. This manual contains instructions for assembly, safety precautions, general operating procedures, maintenance, and a parts breakdown. Your bench grinder has been designed and constructed to provide consistent, long-term operation when used in accordance with the instructions in this document.

The operator is encouraged to familiarize themselves with ANSI B7.1 – *Safety Requirements for Use, Care, and Protection of Abrasive Wheels*.

If you have any questions or comments, please contact your local supplier or JET. JET can also be reached at our website: www.jettools.com.

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

⚠ WARNING

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

Register your product using the mail-in card provided or register online: www.jettools.com/product-registration

To quickly reach the product registration webpage, scan the QR code below.



4.0 Product Identification

Become familiar with the parts and controls of your bench grinder. The components will be referred to later in the manual for assembly and operation instructions.

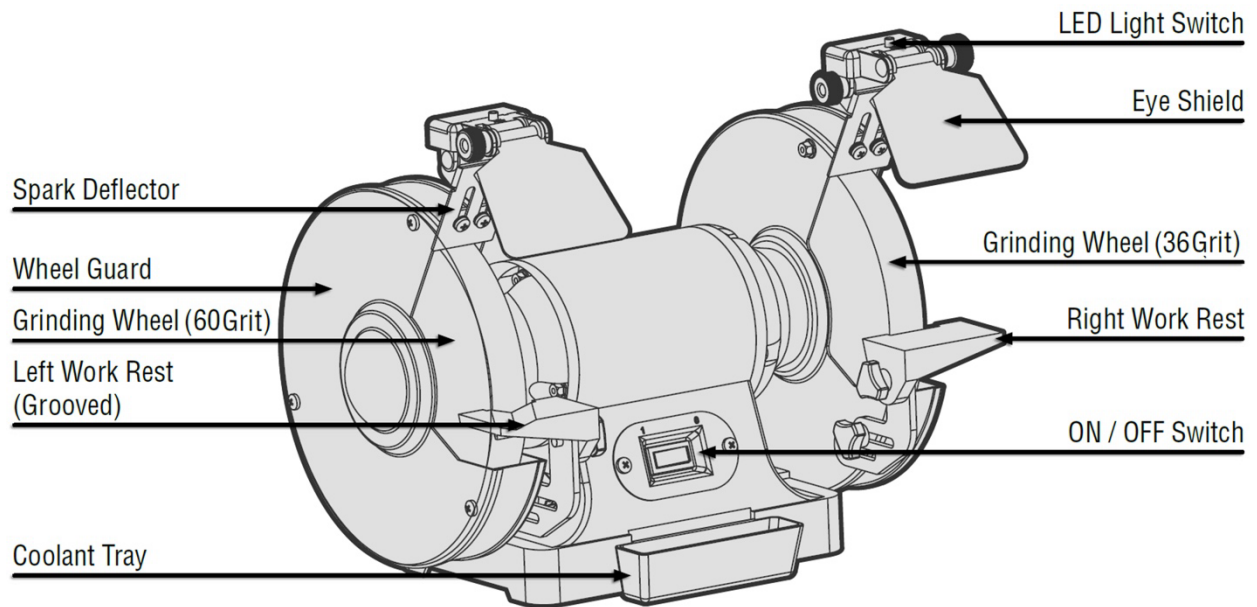


Figure 4-1

5.0 Specifications

Model NumberJWBG-8HS

Stock Number JT1-3161

Motor and Electrical:

Motor Type Totally Enclosed Fan-Cooled, Induction, Capacitor Start
Horsepower 1/2 HP
Phase 1 Ph
Voltage 120 V
Cycle 60 Hz
Listed FLA (Full Load Amps) 4.8 A
Start Capacitor Cr, 25 μ F, 300 V
Motor Speed 3450 RPM
Recommended Circuit Size 15 A
Sound Emission 75 dB at 3 ft. Without Load

Grinding Wheel and Shaft:

Shaft Diameter 5/8" (15.88mm)
Grinding Wheel Size (O.D. x W x Bore) 8" x 1" x 5/8" (200 x 25 x 15.88mm)
Grinding Wheel Grits 36 and 60
Grinding Wheel Material Brown Fused Alumina

Materials:

Motor Housing Steel
End Cover Steel
Base Aluminum
Work Rest Aluminum
Inner Wheel Guard Steel
Outer Wheel Guard Steel
Flange Washer Steel
Eye Shield Polycarbonate

Base:

Dimensions (W x D) 9" x 6-1/8" (228 x 155mm)
Mounting Hole Diameter 7/16" (11mm)
Distance between Mounting Holes 8" (204mm)

Dimensions and Weight:

Overall Dimensions (L x W x H) 14" x 10" x 11.75" (355.6 x 254 x 298.45mm)
Net Weight 30 lbs. (13.5kg)
Gross Weight 32 lbs. (14.5kg)

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.

6.0 Setup and Assembly

6.1 Unpacking

Carefully remove the bench grinder from the packaging and place it on a sturdy, flat surface. Remove all other package contents. Do not discard the packaging until everything is removed. Check the packing list below to make sure all parts and accessories are included. Report any shortages to your distributor. (Check the grinder first to verify if any parts have been pre-assembled.)

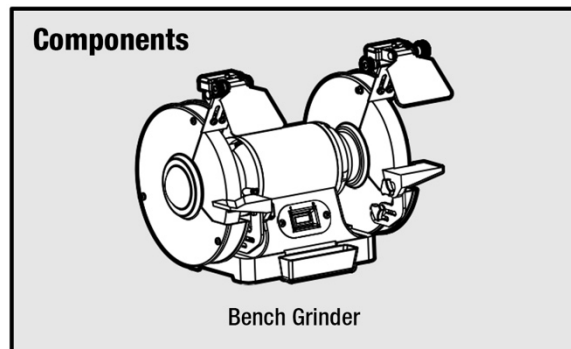


Figure 6-1



Figure 6-2

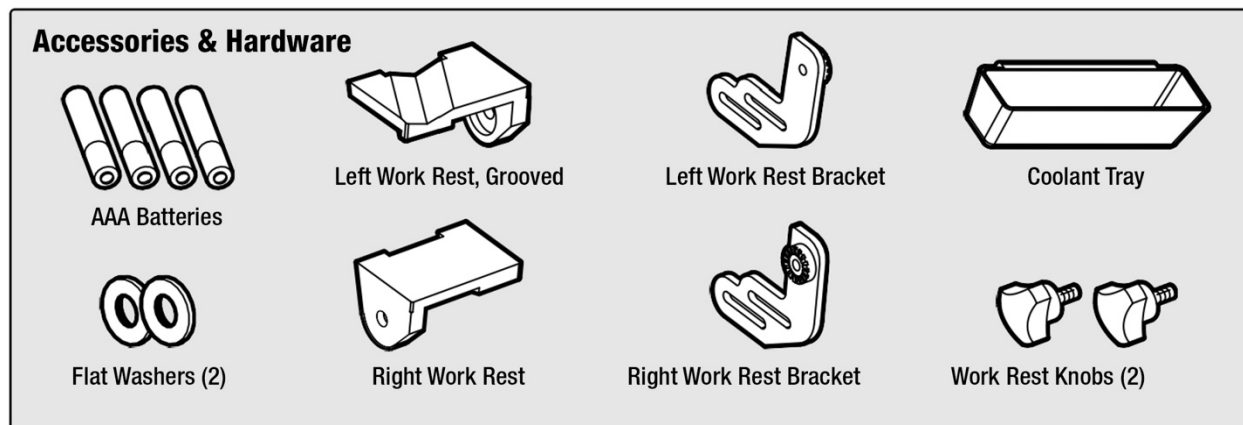


Figure 6-3

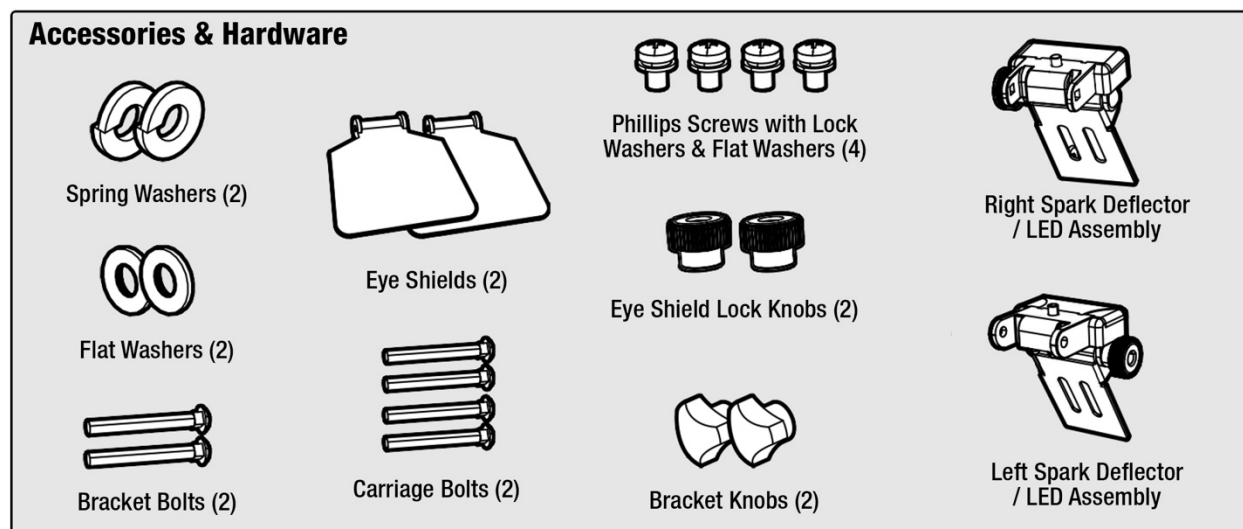


Figure 6-4

⚠ WARNING

Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and personal injury.

6.2 Assembly and Adjustments

6.2.1 Mounting the Spark Deflectors

1. Position the spark deflector assembly (F) on the wheel cover, with its lower edge about 1/16 inch from the grinding wheel.
2. Mount the spark deflector assembly using two Phillips screws (E), lock washers, and flat washers from under the spark deflector's plate. Tighten the screws securely using a Phillips screwdriver.
3. Repeat the steps above for attaching the other spark deflector.

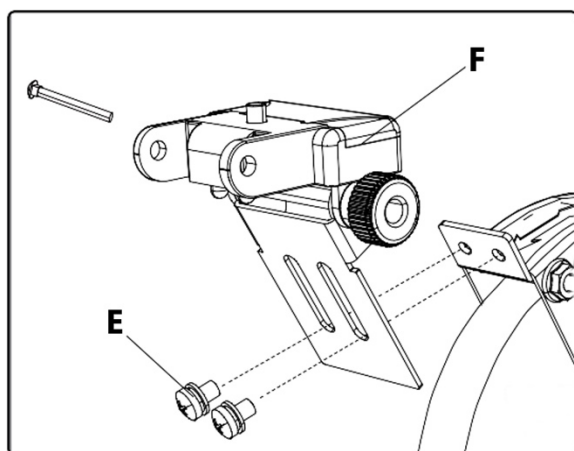


Figure 6-5

6.2.2 Attaching the Eye Shields

NOTE: The carriage bolt and knob used for mounting are preinstalled on the eye shield. Remove them before installing on the spark deflector assembly.

1. Place the eye shield (H) onto the spark deflector assembly (G) and align the holes.
2. Insert the carriage bolt (J) through the holes of the spark deflector (G) and eye shield (H). Tighten with the eye shield knob (I).
3. Repeat the steps above for installing the other eye shield.

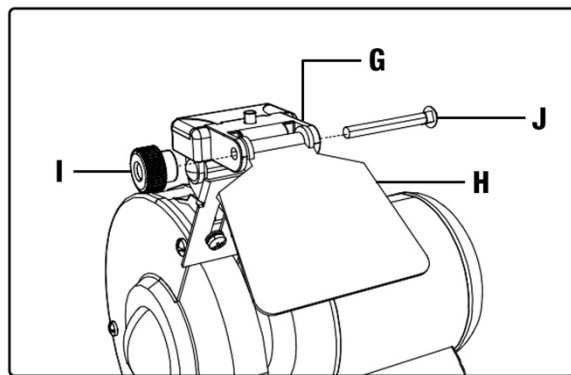


Figure 6-6

6.2.3 Mounting the Work Rests

1. Install the Work Rest Bracket (D):

From the outside of the wheel cover, insert the bracket bolt (S) through the wheel cover hole and the lower slot of the work rest bracket (D). Secure it with the flat washer (N), lock washer (M) and bracket knob (K). Tighten the knob.

2. Install the Work Rest (A):

Install the work rest on the inside of the wheel cover by inserting the work rest screw through the flat washer (P), the work rest (A), the upper slot of the work rest bracket, and the wheel cover. Tighten the knob.

3. Repeat the steps above to install the other work rest.

NOTE: Adjust the work rest to be 1/16" to 1/8" from the wheel surface. Adjust to maintain this distance as the wheel wears down.

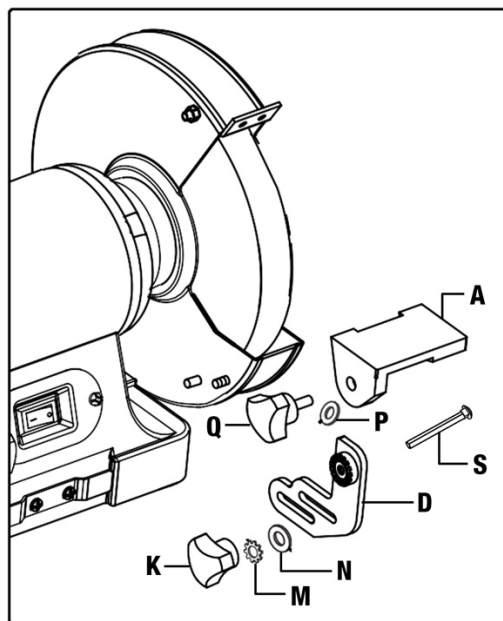


Figure 6-7

6.2.4 Installing the Coolant Tray

Place the coolant tray (L) over the coolant tray bracket, then firmly push the tray down onto the bracket to secure it in place.

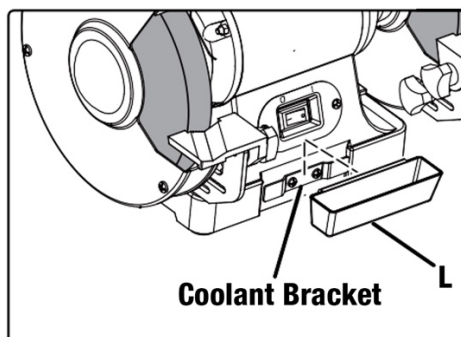


Figure 6-8

6.2.5 Installing the LED Batteries

1. The LED light switch is on top of the spark deflector assembly. Make sure the LED button is in the OFF position before installing batteries.
2. Remove the battery covers from the top of the LED assemblies.
3. Install the AAA batteries (O) inside the battery compartments according to the polarity indicators, then replace the battery covers.
4. Repeat the steps above for the other LED light.

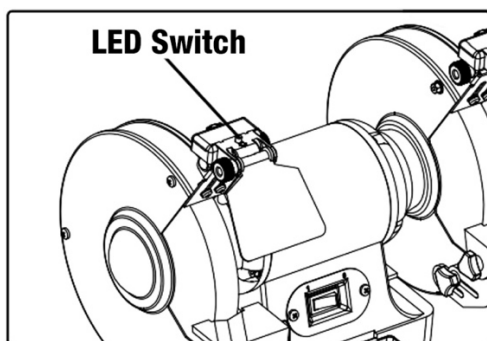


Figure 6-9

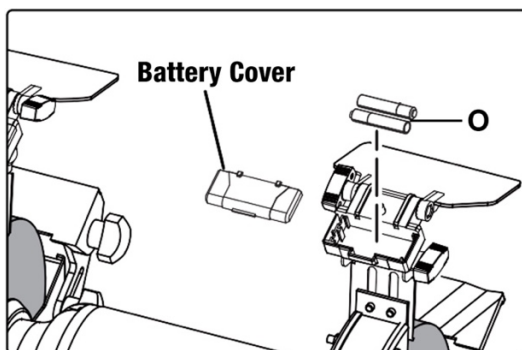


Figure 6-10

6.2.6 Mounting to the Work Surface

Before using this grinder, securely mount it on a stable work surface, such as a workbench or the JET pedestal stand accessory (see *Section 10, Optional Accessory*). This will prevent the bench grinder from vibrating, walking, or tipping during operation. **NOTE:** The mounting hardware is not included.

Mounting to a Workbench

1. Prepare 1/4-inch bolts, flat washers, lock washers, and hex nuts (not included). The bolt length should be 1-1/2 in. longer than the workbench thickness.
2. On the workbench, locate and mark the mounting hole locations.
3. Drill two 3/8-inch-diameter holes through the workbench.
4. Place the bench grinder on the workbench, aligning the holes in the base with those in the workbench.
5. Insert two 1/4-inch-diameter bolts and washers, and attach securely with nuts.

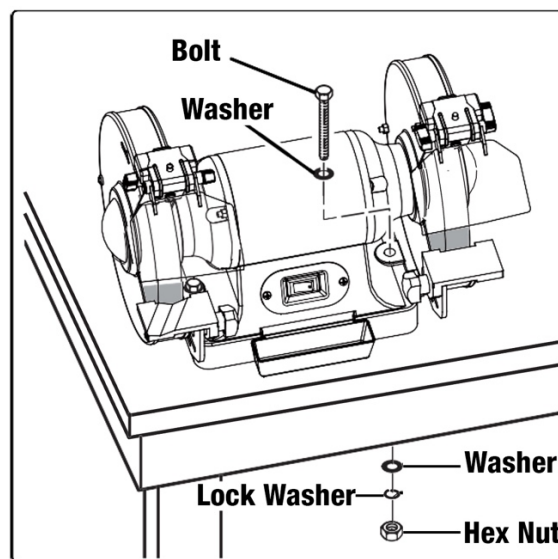


Figure 6-11

WARNING

Always make sure your bench grinder is securely mounted to a workbench or the JET pedestal stand accessory. Failure to do so could result in an accident, resulting in possible serious personal injury.

WARNING

Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes, resulting in possible serious injury.

6.2.7 Using the Coolant Tray

The coolant tray helps cool overheated workpieces. Fill the tray halfway with water or appropriate coolant before operation.

Empty the coolant tray periodically. Rinse out any metal particles and refill the tray with clean water to prevent contamination and buildup. Your cleaning schedule should depend on the frequency of use.

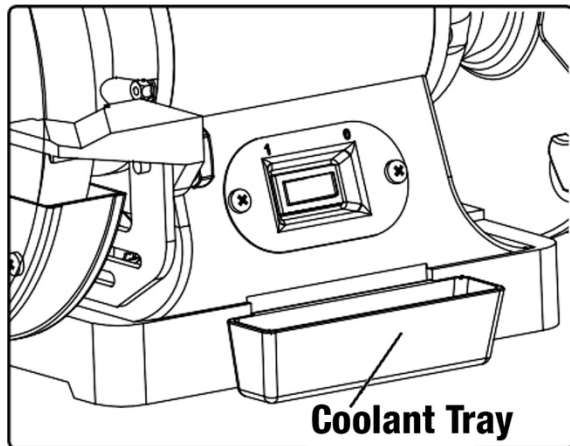


Figure 6-12

6.3 Grinding Wheel Selection

Abrasive wheels are generally designed around five characteristics: material, wheel grade, grain size, grain spacing, and type of bond. These codes will usually be listed on a wheel's label.

General-use silicon-carbide (carborundum) wheels can overheat and ruin the temper of high-quality tool steel. For sharpening woodworking tools, an *aluminum oxide* wheel is recommended.

Always inspect an abrasive wheel before mounting. (See Section 6.4, Ring Test.) A wheel that is cracked or damaged in any way must **not** be used. Maximum operating speed – listed on the abrasive wheel label – must meet or exceed 3450 RPM (grinder spindle speed).

6.4 Ring Test

An internal defect, such as a crack or void, may not be apparent by visual inspection alone. Before installing a grinding wheel, check its internal integrity by performing a simple 'ring test'.

1. Suspend the wheel from the hole by a small pin or finger.
2. Gently tap the flat side of the wheel with a non-metallic object, such as a wood dowel or the handle of a screwdriver. Tap about 45° to each side of the vertical center line, and about 1" to 2" from the periphery. Then rotate wheel 45° and repeat.
3. A good wheel will 'ring'; a defective wheel will 'thud', indicating cracks or other internal compromise. Discard any wheel that does not 'ring'.

⚠ WARNING

A cracked or otherwise damaged grinding wheel can break apart and exit the grinder at high velocity, causing injury. Regularly inspect wheels for damage and ensure all guards are in position.

6.5 Wheel Balancing

With the grinder **unplugged from the power source** and the arbor nuts snug, rotate the wheels by hand and observe their motion.

A grinding wheel has proper balance when:

1. 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 the time to patiently make the necessary adjustments will be rewarded with wheels running true and accurate grinding of workpieces.

6.5.1 Adjusting Concentricity

If the outside face is not rotating concentrically with the arbor, try shifting the wheel closer to arbor centerline before tightening the nut. See A, Figure 6-13.

Another method of achieving concentricity is the use of a wheel dresser (not provided). '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 work rest, so the entire wheel presents an even surface to the workpiece. Proper use of a wheel dresser will eliminate high spots, result in concentric rotation about the arbor, and minimize vibration. (Always follow the wheel dresser manufacturer's instructions.)

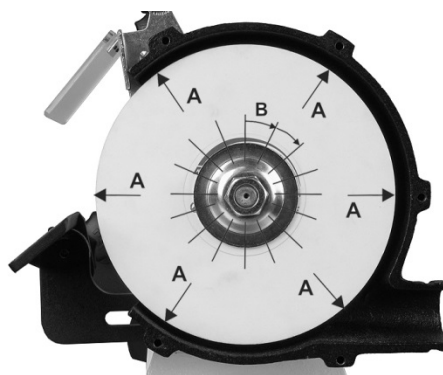


Figure 6-13: Wheel Balancing

6.5.2 Correcting Side-to-Side Wobble

1. Loosen nut and rotate the outer flange a little. Snug the nut and spin the wheel by hand to check.
2. If wobble still exists, continue repeating step 1, rotating the outer flange incrementally in the same direction. See B, Figure 6-13. Make sure

to keep the wheel in the same position each time.

3. If rotation of outer flange through a full rotation is ineffective, remove nut, outer flange, and wheel (keep wheel in same orientation by placing a pencil mark on it somewhere for reference). Then rotate inner flange about 90° and repeat the above steps for the outer flange.
4. Continue this combination of flange movements until the wobble is eliminated.

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

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

If excessive wobble still exists after performing the above remedies, consult *Section 11.0, Troubleshooting*, for further possibilities. When troubleshooting, keep in mind these possible sources of imbalance:

1. Wheel not concentric.
2. Wheel wobbles side-to-side.
3. Wheel arbor bushing has play in it.
4. Wheel is poor quality.
5. Flanges are warped.

7.0 Electrical Connections

The JWBG-8HS Bench Grinder is rated at 120 V power. The grinder is supplied with a plug designed for use on a circuit with a 110-120 V *grounded outlet* that looks like the one pictured in A, Figure 7-1.

Before connecting to a power source, be sure the switch is in the *OFF* position.

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

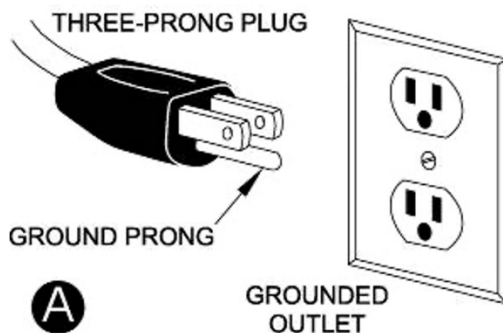


Figure 7-1: Plug and Receptacle

7.1 Grounding Instructions

1. *All Grounded, Cord-connected Tools:*

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current, reducing 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 whose outer surface 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.

WARNING

Check with a qualified electrician or service personnel if the grounding instructions are not fully understood, or if in doubt about 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 a damaged or worn cord immediately.

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

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in A, Figure 7-1.

7.2 Extension Cords

USE PROPER EXTENSION CORD. Use only three-wire extension cords with three-prong grounding-type plugs and three-prong receptacles that accept the tool's plug.

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one rated for the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Amp Rating	Total length of cord in feet			
	25	50	100	150
	AWG			
4.8A	18	16	16	14

Table 1: Extension Cord Recommendations

1. Examine the extension cord before use. Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.
2. Do not abuse the extension cord. Do not pull on cord to disconnect from receptacle; always disconnect by pulling on plug. Disconnect the extension cord from the receptacle before disconnecting the product from it. Protect your extension cords from sharp objects, excessive heat and damp/wet areas.
3. Before connecting the grinder to an electrical outlet, make sure the switch is in the OFF position and that the outlet's current rating matches the current rating stamped on the motor nameplate. Running at a lower voltage will damage the motor.

8.0 Operation

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

A medium-grit abrasive grinding 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-grit abrasive grinding wheel should be used for sharpening tools to meet close size tolerances because it removes metal more gradually, enabling precision grinding and producing a smooth finish.

⚠ WARNING

Do not operate this grinder without all guards and shields in place and in working order. Always use approved safety glasses or face shields. Failure to comply may cause serious injury.

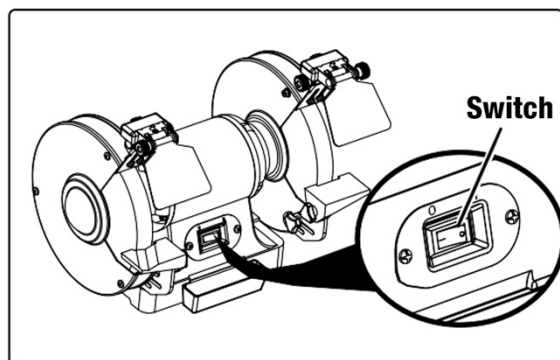


Figure 8-1

1. To operate the bench grinder, always wear safety glasses and stand to the side of the grinder (not in front) before turning it on.
2. Turn the ON/OFF switch to the ON position. Once the tool is up and running, allow it to reach

full speed before grinding. This will take about 15 seconds (Figure 8-1).

3. Hold the workpiece firmly against the work rest. Hold very small pieces with pliers or other suitable clamps.
4. Choose a suitable grinding wheel for your operation. The 60-grit wheel is good for small material removal and sharpening. The 36-grit wheel is good for rapid material removal and tool reshaping.
5. Feed the workpiece smoothly and evenly into the grinding wheel. Move the workpiece back and forth at a steady pace to ensure even grinding and prevent burning any one area of the surface.

NOTE: Sparks are normal during grinding operations. Protect yourself and the surrounding environment from flying sparks.

6. Move the workpiece slowly and avoid forcing the workpiece against the grinding wheel. If the wheel tends to slow down under excessive force, you should occasionally release the pressure to let it return to full speed.

NOTE: Excessive pressure may damage the tool, cause the motor to overheat, and prematurely wear down the grinding wheel.

7. Grind only on the face of the grinding wheel; never on the side of it.
8. Regularly immerse the hot end of the workpiece in the coolant tray to cool it.
9. Turn the ON/OFF switch to the OFF position. The wheels will take about 3 minutes and 20 seconds to come to a full stop. Avoid contact with the bench grinder's housing until it has stopped and cooled down completely. Unplug the tool from the power source.

8.1 Sharpening Lawn Mower Blades

Lawn mower blades are usually sharpened on only one edge and dressed slightly on the other. Perform this sharpening process on both cutting ends of the blade.

After sharpening, be sure to balance the blade by removing additional material from the heavy end. Unbalanced blades can cause serious damage to your lawn mower's crankshaft. There are several inexpensive cone balancers on the market for this purpose. Alternatively, you can balance the blade using a screwdriver secured in a vise, as shown.

NOTE: Always remove the spark plug wires or disconnect the battery from the mower before servicing the blades to prevent accidental starts.

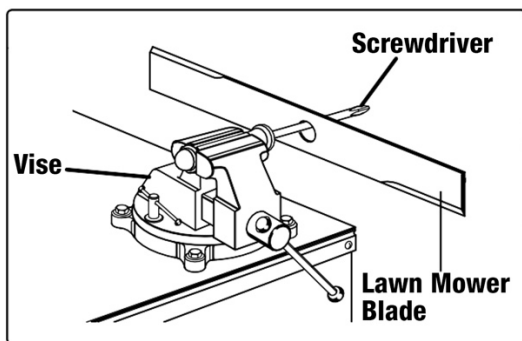


Figure 8-2

8.2 Sharpening Chisels & Flathead Screwdrivers

The tip of a properly sharpened chisel or screwdriver will be a perfectly flat rectangle, perpendicular to the shank's centerline. The two sides and two faces will taper outward from the end. Hold each face of the screwdriver against the wheel to true it up, then ease the end straight into the wheel to grind it true.

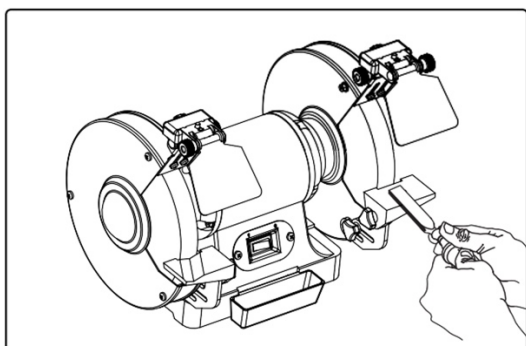


Figure 8-3

8.3 Sharpening Drill Bits

Use the grooved work rest to provide angled support to drill bits during the grinding operation. The angled groove running through the work rest provides a cradle for drill bits during sharpening operations.

For better sharpening results, you can use a sharpening jig (available at most hardware stores). Begin on one side of the point at the existing angle, then twist the bit while maintaining contact with the grinding surface. Sharpen only the tip of the drill bit.

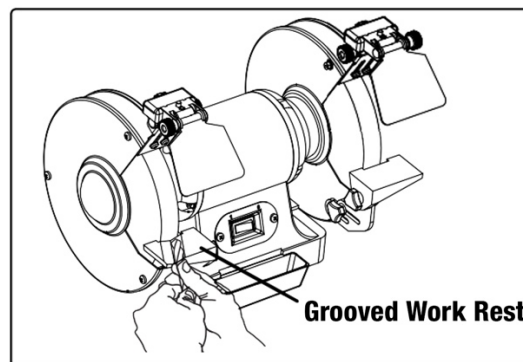


Figure 8-4

8.4 Sharpening Knives

Work from the heavy end of the blade toward the tip to remove metal from both faces of the knife.

8.5 Sharpening Scissors

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

9.0 Maintenance

⚠ WARNING

For your own safety, turn the switch OFF and remove the plug from the electrical outlet before adjusting or performing maintenance inspection work on the bench grinder.

9.1 General Cleaning and Maintenance

1. Regularly check the tool and use a soft brush to remove accumulated dust. Wear safety goggles to protect your eyes while cleaning.
2. If the body of the grinder needs cleaning, wipe it down with a soft, damp cloth. A mild detergent can be used. Do not use alcohol, gasoline, or other similar cleaning agents. Do not make contact with the grinding wheels with any damp cloth.

⚠ WARNING

Do not allow brake fluid, gasoline, petroleum-based products, penetrating oils, etc., to contact plastic parts at any time. Chemicals can damage, weaken, or destroy plastic, potentially resulting in serious personal injury.

3. Always make sure the eye shields are transparent and not blocking the view of the grinding wheel.

9.2 Power Cord Replacement

If replacement of the power supply cord is necessary, it must be done by an authorized service center to avoid a safety hazard.

9.3 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 other conditions can be remedied with a dressing tool (available at most hardware stores), new wheels sometimes require dressing to true them.

9.4 Changing the Grinding Wheel

In normal use, grinding wheels may become cracked, grooved, rounded at the edges, chipped, out of true, or loaded with foreign material. Grinding wheels should be inspected before each use. Cracked wheels should be replaced immediately. Any of the other conditions can be remedied with a dressing tool (not included).

If you must replace a wheel, be sure to obtain one rated for at least 3450 RPM. Table 2 shows the correct dimensions for the replacement wheel.

	Wheel Diameter	Maximum Width	Center Hole
JWBG-8HS	8"	1"	5/8"

Table 2

Test new wheels for cracks (see *Section 6.4 Ring Test*) and maintain the existing sequence of retaining hardware. Be sure the grinder is unplugged before attempting repairs.

Replacing a Grinding Wheel:

1. Ensure that the machine is powered off and unplugged.
2. Loosen the bracket knob and remove the work rest bracket assembly from the wheel cover. Repeat for the other side.
3. Using a Phillips-head screwdriver, remove the two remaining bolts and nuts from the wheel cover. Repeat for the other side.
4. Using two 24mm wrenches, loosen the arbor hex nut found on the outside edge of the grinding wheel. The left side hex nut is loosened by using a clockwise wrench rotation, while the right side hex nut is loosened with a counterclockwise rotation.

If you are having difficulty with the two-wrench method, you may try holding one wheel while loosening the nut. Wear gloves if you decide to use this method to avoid scraping your hands or fingers. Remove the arbor hex nut and outer wheel flange.

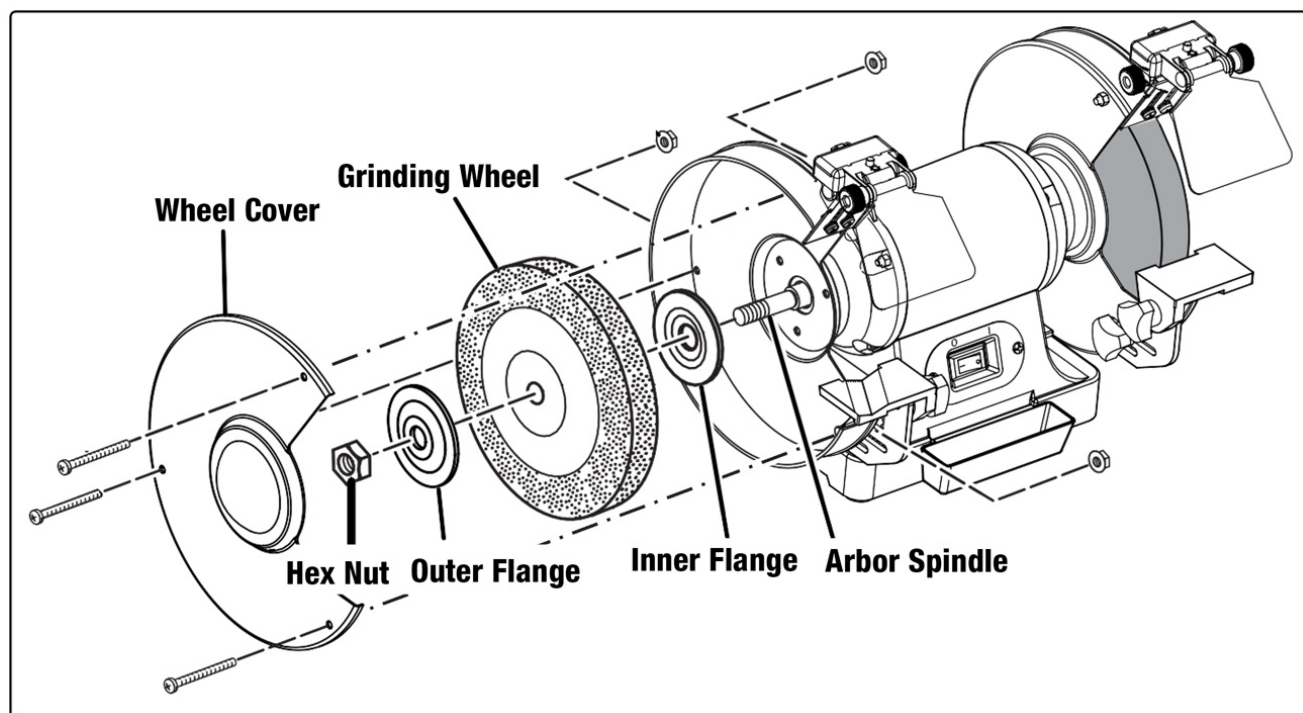


Figure 9-1

5. Replace the grinding wheel with a new one rated for at least 3450 RPM. The outer diameter of the wheel should be 8 inches, and the arbor size should be 5/8-inch. Do not remove labels from the grinding wheels.
6. Once the wheel has been replaced, reattach the outer flange and the arbor hex nut.

⚠ CAUTION Do not overtighten the nut, and do not use an impact driver to tighten it. This can damage the grinding wheels and lead to personal injury.

7. Replace the wheel cover and secure it with the bolts and knobs. Replace the work rest assemblies. Make sure all guards, shields, and work rests are correctly positioned before operation.

9.5 Using a Wire or Buffing Wheel

A wire or buffing wheel can be installed onto either side of the grinder as needed.

More spacers may be required when using wire wheels, depending on the wheel's thickness. **NOTE:** The first spacer should always go onto the arbor shaft, between the innermost wheel flange and the body of the grinder. If needed, a second spacer should go between the outermost wheel flange and the arbor hex nut. Always use the included wheel flanges even if using a wire or a buffing wheel.

9.6 Storage

Store the bench grinder and the grinding wheels to protect them from moisture, contaminants, and other potential damage.

9.7 Lubrication

All motor bearings are permanently lubricated by the manufacturer and require no additional lubrication.

10.0 Optional Accessory

The bench grinder can be mounted on the JET pedestal stand (optional accessory, p/n JT9-577172), which features an adjustable platform and a coolant cup. See Figure 10-1. To order, contact your dealer or call JET customer service at the phone number on the cover.



Figure 10-1: Optional Stand

11.0 Troubleshooting the JWBG-8HS

Table 3

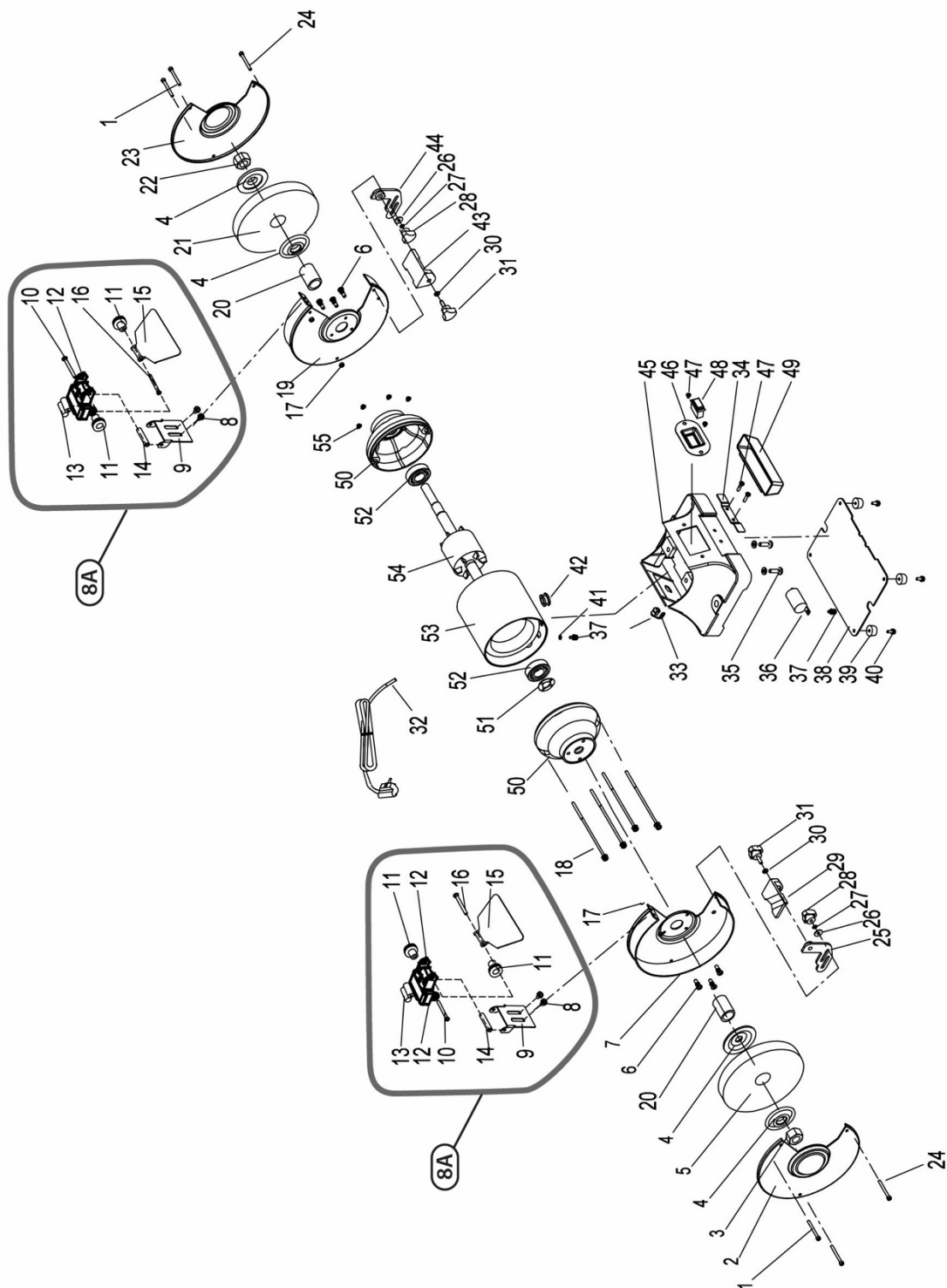
Problem	Probable Cause	Remedy
Motor will not start.	Not plugged into receptacle.	Plug must be fully inserted into receptacle.
	Switch not in ON position.	Make sure switch is moved completely to ON position.
	Motor cord cut or abraded.	Replace with new cord.
	Plug on cord is faulty.	Replace with new plug.
	Fuse blown or circuit breaker tripped.	Reset. (There may be too many machines on circuit.)
	Motor faulty.	Contact JET Customer Service.
Motor will not start and fuse blows or circuit breaker trips.	Too many machines running on same electrical circuit.	Turn off other machines and try again.
	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; clear any obstructions.
	Undersized extension cord.	Use correct size extension cord; see Table 1.
	Short circuit.	Cord, plug, or motor needs repair; contact JET Customer Service.
Motor fails to develop full power.	Low line voltage.	Have an electrician check power line for proper voltage.
	Faulty motor or capacitor.	Contact JET Customer Service.
Motor overheats.	Overload on motor.	Reduce load on motor; do not press so hard.
	Capacitor failure.	Call JET Customer Service.
Motor stalls or slows.	Motor overload.	Reduce load on motor; do not press so hard.
	Low line voltage.	Check power line for proper voltage.
	Loose wire connections.	Contact JET Customer Service.
	Faulty motor.	Contact JET Customer Service.
Frequent fuse or circuit breaker failure.	Motor overload.	Reduce load on motor; do not press so hard.
	Overload of electrical circuit.	Too many electrical appliances on same circuit.
	Incorrect fuse or circuit breaker.	Have electrician upgrade service to outlet.
Grinding wheels won't spin true.	Arbor nut too tight, springing the flanges.	Do not overtighten nut.
	Flange(s) warped, or flange surface is not flat.	Replace flange(s).
	Wheel bushings have too much play.	Install new bushings or replace wheel.
	Arbor damaged.	Contact JET Customer Service.
Excessive vibration.	Incorrect size or type of wheel.	Match wheel size to grinder specifications. Use proper wheel type for job being done.
	Wheels out of balance.	Balance wheels. See Section 6.5.
	Too much play in wheel bushing.	Install new bushings or replace wheel.
	Flanges worn, bent, or have burrs.	Inspect flanges, replace if needed.
	Worn bearings in grinder.	Replace bearings. Contact JET Customer Service.
	Poor quality wheel.	Replace wheel with one of higher quality.

12.0 Replacement Parts

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday, 8:00 a.m. to 5:00 p.m. CST. Having the Model Number and Serial Number of your machine ready when you call will help us serve you quickly and accurately.

Non-proprietary parts, such as fasteners, can be found at local hardware stores or may be ordered from JET. Some parts are shown for reference only and may not be available individually.

12.1.1 JWBG-8HS Bench Grinder – Exploded View

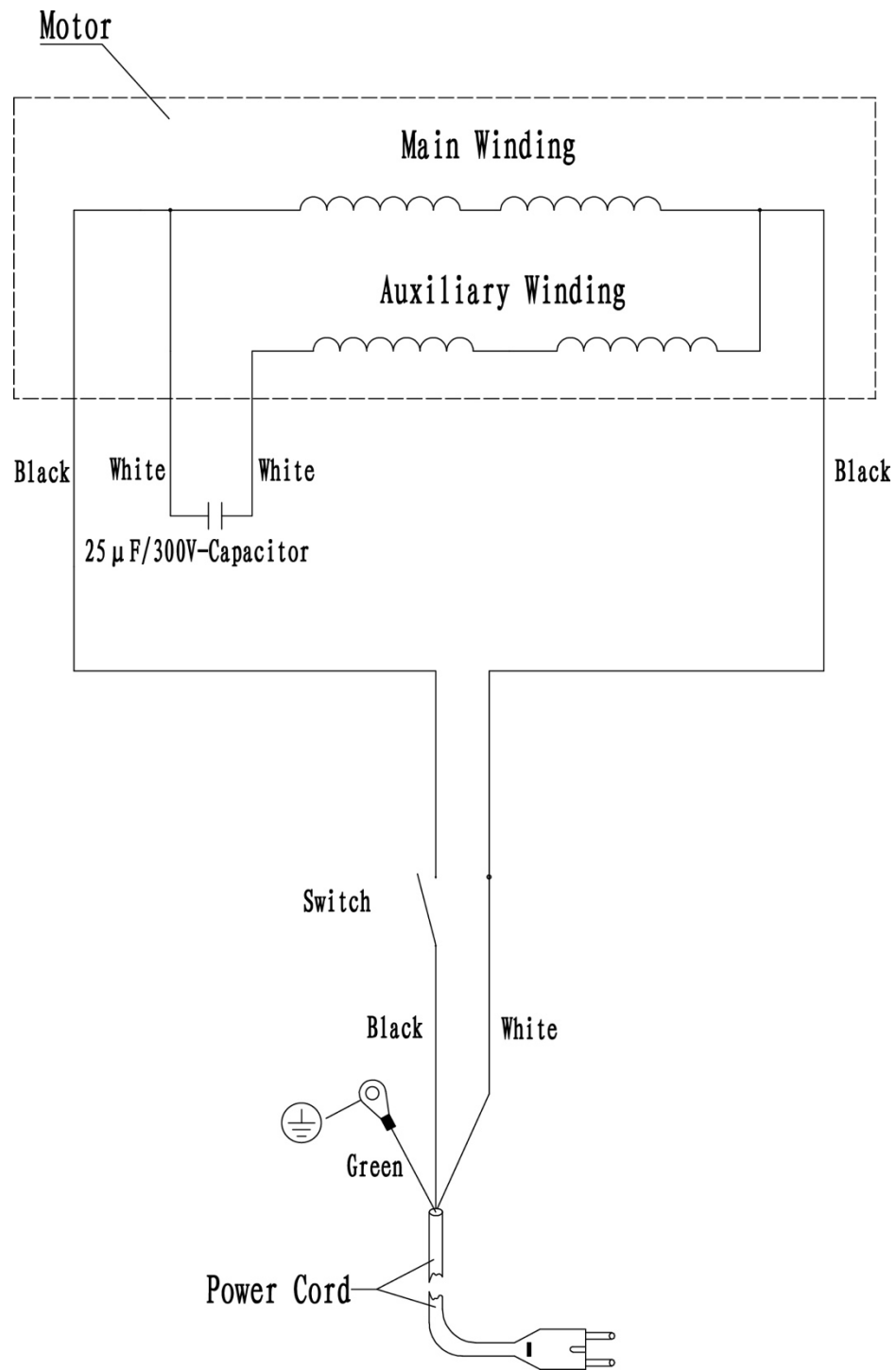


12.1.2 JWBG-8HS Bench Grinder – Parts List

Index No	Part No	Description	Size	Qty
1	JT1-3506	Pan Head Machine Screw	M5x48	4
2	JT1-3507	Left Guard Cover Plate		1
3	JT1-3508	Hex Nut	M16 Left	1
4	JT1-3509	Arbor Washer		4
5	**	Grinding Wheel (Brown Alumina)	60# $\phi 200 \times 25 \times \phi 15.88$	1
6	JT1-3510	Pan Head Machine Screw Assembly	M5x10	6
7	JT1-3511	Left Guard Base Plate Assembly		1
8A	JT1-3512	Protective Lens/LED Kit (includes items 8 – 16)		2
8	**	Pan Head Machine Screw Assembly		4
	**	Pan Head Machine Screw	M5x8	4
	**	Flat Washer	M5	4
	**	Lock Washer	M5	4
9	**	Protective Lens Bracket		2
10	**	Cup Head Square Neck Bolts	M5x60	2
11	**	Locking Handle		4
12	**	LED Light Assembly		2
13	**	AAA Battery		4
14	**	Spacing Sleeve		2
15	**	Protective Lens		2
16	**	Cup Head Square Neck Bolts	M5x55	2
17	**	Hexagon Nuts with Flange	M5	4
18	**	Pan Head Machine Screw Assembly	M5x155	4
19	JT1-3513	Right Guard Base Plate Assembly		1
20	JT1-3514	Shaft Sleeve		2
21	**	Grinding wheel (Brown Alumina)	36# $\phi 200 \times 25 \times \phi 15.88$	1
22	JT1-3515	Hex Nut	M16	1
23	JT1-3516	Right Guard Cover Plate		1
24	JT1-3517	Cup Head Square Neck Bolts	M5x55	2
25	JT1-3518	Left Fixed Bracket		1
26	**	Fender Washer	M5	2
27	**	Lock Washer	M5	2
28	**	Lock Nut		2
29	**	Left Movable Bracket		1
30	**	Flat Washer	M6	2
31	**	Bracket Locking Handle		2
32	JT1-3519	Plug Lead Wire		1
33	JT1-3520	Lead Wire Clamp	(6P4)	1
34	**	Coolant Tray Clip		1
35	**	Hex Head Bolt Assembly	M8x20	2
36	JT1-3525	Capacitor	25 μ F/300V	1
37	**	Pan Head Machine Screw Assembly	M4x7	2
38	JT1-3521	Base Plate		1
39	JT1-3522	Rubber Foot		4
40	**	Pan Head Machine Screw Assembly	M5x16	4
41	**	External Tooth Lock Washer (Galvanized)	M4	2
42	JT1-3526	Lead Wire Protective Sleeve		1
43	**	Right Movable Bracket		1
44	JT1-3523	Right Fixed Bracket		1
45	**	Base		1
46	**	Switch Base Plate		1
47	**	Pan Head Machine Screw	M4x8	4
48	JT1-3524	Switch		1
49	JT1-3527	Coolant Tray		1
50	**	End Cover		2
51	**	Wave Spring Washer	$\phi 40$	1
52	**	Bearing	6203	2
53	**	Stator		1
54	**	Rotor		1
55	**	Hexagon Nuts with Flange	M5	4

** These parts are shown for reference only and are not available for order individually. Non-proprietary parts, such as fasteners, can usually be found at local hardware stores.

13.0 Electrical Diagram



14.0 Warranty and Service

JET warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

Warranty Period

The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered

This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered

This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. JET woodworking machinery is designed to be used with wood. Use of these machines in the processing of metal, plastics, or other materials may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

Warranty Limitations

Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

How to Get Technical Support

Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET website.

More Information

JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

How State Law Applies

This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty

JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

JET sells through distributors only. The specifications listed in JET printed materials and on official JET website are given as general information and are not binding. JET reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever. JET® branded products are not sold in Canada by JPW Industries, Inc.

Product Listing with Warranty Period

90 Days – Parts; Consumable items
1 Year – Motors; Machine Accessories
2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories; Woodworking Machinery used for industrial or commercial purposes
5 Year – Woodworking Machinery
Limited Lifetime – JET Parallel clamps; VOLT Series Electric Hoists; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock products; Hand Tools; Air Tools

NOTE: JET is a division of JPW Industries, Inc. References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.



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