

Grizzly
Industrial, Inc.®



6" GRINDER MODEL G9717 INSTRUCTION MANUAL



COPYRIGHT ©2000 BY GRIZZLY INDUSTRIAL, INC.
1821 VALENCIA ST., BELLINGHAM, WA 98227

**WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE
OR FORM WITHOUT THE WRITTEN APPROVAL OF GRIZZLY INDUSTRIAL, INC.**

MARCH, 2000 PRINTED IN CHINA

ONLINE MANUAL DISCLAIMER

THE INFORMATION IN THIS MANUAL REPRESENTS THE CONFIGURATION OF THE MACHINE AS IT IS CURRENTLY BEING SHIPPED. THE MACHINE CONFIGURATION CAN CHANGE AS PRODUCT IMPROVEMENTS ARE INCORPORATED. IF YOU OWN AN EARLIER VERSION OF THE MACHINE, THIS MANUAL MAY NOT EXACTLY DEPICT YOUR MACHINE. CONTACT CUSTOMER SERVICE IF YOU HAVE ANY QUESTIONS ABOUT DIFFERENCES. PREVIOUS VERSIONS ARE NOT AVAILABLE ONLINE.

GENERAL SAFETY RULES

WARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.

DANGER

Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

WARNING

Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

WARNING

Safety Instructions For Power Tools

1. **KEEP GUARDS IN PLACE** and in working order.
2. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
3. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
4. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.
5. **KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance from work area.
6. **MAKE WORK SHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
7. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
8. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.

WARNING

Safety Instructions For Power Tools

9. **USE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. Conductor size should be in accordance with the chart below. The amperage rating should be listed on the motor or tool nameplate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Your extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords if they become damaged.

Minimum Gauge for Extension Cords

| AMP RATING | LENGTH | | |
|------------|--------|------|-------|
| | 25ft | 50ft | 100ft |
| 0-6 | 18 | 16 | 16 |
| 7-10 | 18 | 16 | 14 |
| 11-12 | 16 | 16 | 14 |
| 13-16 | 14 | 12 | 12 |
| 17-20 | 12 | 12 | 10 |
| 21-30 | 10 | 10 | No |

10. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, 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.
11. **ALWAYS 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 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 and changing accessories, such as blades, bits, cutters, and the like.
16. **REDUCE THE RISK OF UNINTENTIONAL 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 risk of injury.
18. **CHECK DAMAGED PARTS.** Before further use of the tool, 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.
19. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.

WARNING

Additional Safety Instructions For Grinders

1. **ALWAYS WEAR** a face shield and/or safety goggles.
2. **SECURE THIS GRINDER** firmly to a benchtop or stand.
3. **NEVER USE A GRINDING WHEEL** which has evidence of cracking or chips. "Ring Check" the wheel to test its integrity (See Page 9 for checking procedure).
4. **USE ONLY PROPERLY SIZED WHEELS** which have the right bore size and overall diameter.
5. **DRESS THE GRINDING WHEEL** when its surface becomes rutted or uneven. Replace the wheel if the wear or damage becomes excessive.
6. **ALLOW THE WHEEL TO ATTAIN FULL SPEED** before introducing the workpiece.
7. **ALWAYS USE THE SAFETY SHIELDS AND TOOL REST** when grinding. The shields prevent sparks from flying, and the tool rest provides a firm rest on which to position the workpiece.
8. **NEVER GRIND SMALL STOCK.** Do not attempt to grind or sharpen anything which can't be adequately supported by the tool rest. Use clamping pliers or a similar holder when grinding parts which can't be easily held by hand.
9. **GRINDING CREATES SPARKS,** make sure your work area is free of combustible materials.
10. **AVOID OVERHEATING THE WORKPIECE.** Excessive prolonged grinding on a workpiece can heat it to the point of being dangerously hot. Keep a water reservoir handy when grinding to quench hot parts. Overheating can also change the metallurgical properties of your part.
11. **NEVER STICK AN OBJECT AGAINST THE WHEEL TO STOP THE WHEEL ROTATION.**

WARNING

Operating this equipment has the potential to propel debris into the air which can cause eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).

CAUTION

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment or poor work results.

SECTION 2: CIRCUIT REQUIREMENTS

110V Operation

The motor supplied with the G9717 must be operated at 110V. Use an outlet configuration as shown in **Figure 1**. Under normal use, the motor draws approximately 2-3 amps @ 110V. We recommend a 15 amp circuit breaker for 110V operation. This should be satisfactory for normal use, while providing enough protection against motor damage caused by power surges.

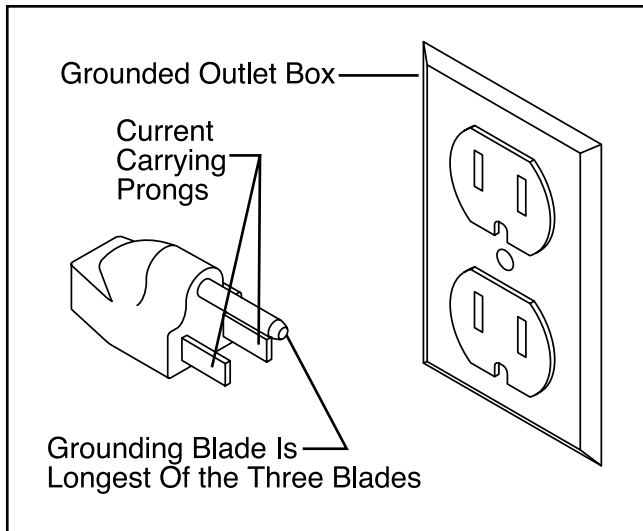


Figure 1. Typical 110V plug and outlet.



Grounding

In the event of an electrical short, grounding reduces the risk of electric shock by providing a path of least resistance to disperse electric current. This tool is equipped with a power cord having an equipment-grounding conductor. **See Figure 1.** The outlet must be properly installed and grounded in accordance with all local codes and ordinances.

⚠️ WARNING

This equipment must be grounded. Please ensure that this machine is continuously grounded from the motor to the machine frame and then to a known ground. Verify that any existing electrical outlet and circuit you intend to plug into is actually grounded. If it is not, it will be necessary to run a separate 12 A.W.G. copper grounding wire from the outlet to a known ground. Under no circumstances should the grounding pin from any three-pronged plug be removed. **Serious personal injury may occur.**



Extension Cords

Should it be necessary to use an extension when operating at 110V, make sure the cord is rated Hard Service (grade S) or better. Refer to the chart in Section 1: Safety Instructions to determine the minimum gauge for the extension cord. The extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords when they become worn or damaged.



⚠️ CAUTION

We have covered some basic electrical requirements for the safe operation of your Surface Grinder. These requirements are not necessarily comprehensive. You must be sure that your particular electrical configuration complies with local and state codes. Ensure compliance by checking with your local municipality or a licensed electrician.

SECTION 3: GENERAL INFORMATION

Commentary

We are proud to offer the Grizzly Model G9717 6" Grinder. This Grinder is part of a growing Grizzly family of fine metalworking machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

The Model G9717 is intended for home and hobby-type use. It features a 1/3 HP, 110V motor, two 6" grinding wheels, one 60 grit and one 30 grit. Eye shields and tool rests are included to ensure safe operation of the wheels.

Replacement wheels with a 6" diameter and a 1/2" bore are available through the Grizzly catalog.

We are also pleased to provide this manual with the Model G9717. It was written to guide you through assembly, review safety considerations, and cover general operating procedures. It represents our effort to produce the best documentation possible. If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc.
c/o Technical Documentation
P.O. Box 2069
Bellingham, WA 98227-2069

Most importantly, we stand behind our machines. If you have any service questions or parts requests, please call or write us at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756

Phone:(570) 546-9663

Fax:(800) 438-5901

E-Mail: techsupport@grizzly.com

Web Site: <http://www.grizzly.com>

The specifications, drawings, and photographs illustrated in this manual represent the Model G9717 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. Whenever possible, though, we send manual updates to all owners of a particular tool or machine. Should you receive one, we urge you to insert the new information with the old and keep it for reference.

CAUTION

To operate this, or any power tool, safely and efficiently, it is essential to become as familiar with its characteristics as possible. The time you invest before you begin to use your Model G9717 will be time well spent. **DO NOT** operate this machine until you are completely familiar with the contents of this manual. Make sure you read and understand all of the safety procedures. If you do not understand something, **DO NOT** operate the machine.



SECTION 4: ASSEMBLY

Tool Rest

The Tool Rest provides a surface which can be used to support the workpiece during grinding. Certain types of grinding may require jigs or accessories to assure the proper angle of the piece against the wheel.

The Tool Rest assembles to the inboard side of the Wheel Guard. Use two (2) hex bolts and lockwashers inserted through the rest support and thread into the tapped holes. Repeat this installation for the opposite side wheel. The Tool Rest can be adjusted in and out by loosening these bolts. Always retighten before beginning grinding operations.



Figure 2. Tool rest installed.



Eye Shield

The Eye Shield should be positioned between the grinding wheel and the operator's face during grinding. This lessens the possibility for sparks or metal bits to go flying directly at the operator.

The Eye Shield has a clear plastic panel which is attached to a support bracket. Thread the long Phillips® head screw through the bracket, then through the shield, and then through the other side of the bracket. Use a nut and lockwasher, but leave it loose enough so the angle of the Eye Shield can be adjusted.

Attach the support bracket to the top end of the wheel rim guard with a Phillips® head screw, flat washer and lockwasher into the tapped hole. Note that there is a slot in the support bracket which allow adjusting the Eye Shield up and down.

Repeat the Eye Shield installation for the opposite side wheel.

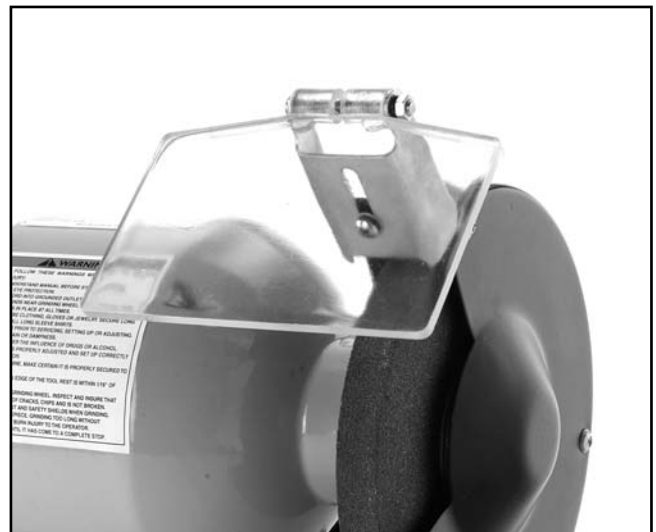


Figure 3. Eye shield in operating position.



Mounting to Bench

The grinder base has two holes directly under the wheel shaft. These holes can be used to mount the grinder to a workbench, table top, or other solid surface. Since grinding does develop a lot of force, it is best to mount the grinder solidly before using. If you wish for the grinder to remain portable, it can be temporarily clamped to a table. Just make certain no part of the clamping device interferes with the wheels or the tool rests.



Notes



SECTION 5: OPERATIONS

Wheel Selection

Aluminum oxide and silicon carbide wheels are marked in a somewhat uniform manner by all the major manufacturers. Understanding these markings will help you understand the capabilities of various wheels. Always refer to the manufacturer's grinding recommendations when selecting a wheel for your project.

The basic format for wheel numbering is:

| Prefix | Abrasive Type | Grit Size | Grade | Bond Type |
|--------|---------------|-----------|-------|-----------|
| 36 | A | 60 | L | V |

The most common abrasive types used are A for Aluminum Oxide and C for Silicon Carbide, and occasionally SG for seeded gel. The prefix is the manufacturer's designation for a particular type.

The grit size is a number referring to the size of the abrasive grain in the wheel. The lower the number the coarser the wheel - 10 is a very coarse wheel for roughing and 220 is usually the upper range for fine finish work.

Grade is an indication of the hardness of the wheel, with A being softest to Z the hardest.

Bond Type refers to the type of bonding material used to hold the abrasive material. Most general purpose wheels will have a V indicating Vitriified clay is used, providing a high strength and good porosity. The other most common is B for resin where synthetic resins are used. These are used to grind cemented carbide and ceramic materials

There may be other numbers inserted which have meaning for a particular type of wheel. Refer to the manufacturer's technical data for a complete explanation.



Starting and Stopping

Once assembly has been completed, the G9717 Grinder is ready for use in the shop.

The switch is located on the front of the grinder. To turn the grinder "ON", push the right hand side of the rocker switch, to turn it "OFF", push the left hand side of the switch. Always make sure the wheels come up to full speed before introducing the workpiece to the wheel.

When mounting a new wheel, or when there is any concern about wheel integrity, stand away from the line of rotation of the wheel and then turn the wheel "ON". If there is a potential problem it will generally occur when the wheel is first started.



WARNING

DO NOT make adjustments while the grinder is running. Ensure that the switch is off, power is disconnected and moving parts have stopped before making adjustments. Failure to comply could result in serious injury or electrical shock hazard.

WARNING

Operation of this equipment has the potential to propel debris into the air which can cause eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).

Wheel Mounting

Before mounting any wheel, check it for integrity by performing a “ring check”. Balance the wheel on one finger, then lightly tap the rim of the wheel with a piece of wood such as the handle of a hammer. The wheel should have a ringing or harmonic type of sound. If it responds with a dull thud it may indicate that the wheel has cracks. Do not use a wheel which is suspected of having cracks, or if there are visual chips, nicks or dents in the wheel surface. These discontinuities can lead to wheel failure where the wheel flies apart at operating speed. Always be sure to use a wheel which is rated for operating at speeds equal to or greater than 3450 RPM.

The wheel guard assembly must be removed in order to mount or dismount a grinding wheel.

1. Remove the three Phillips® head screws and nuts which go through the outer guard.
2. Remove the outer guard and rim guard. See Figure 4.

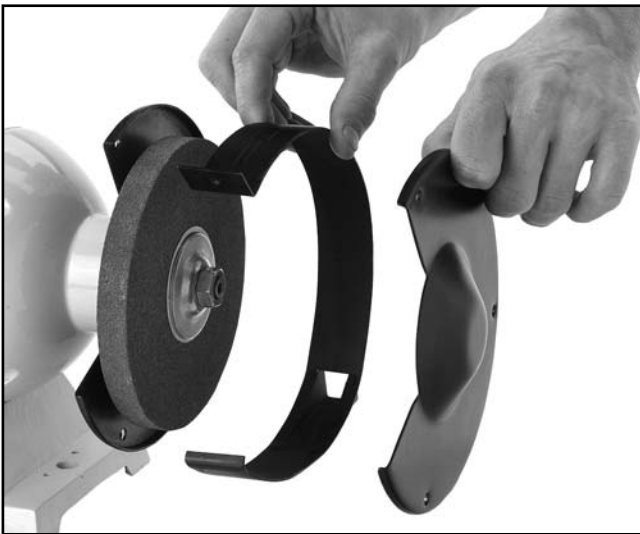


Figure 4. Wheel guard components.

3. Use a $\frac{3}{4}$ " or 19mm open end wrench on the nut which holds the wheel on the arbor. Hold the wheel from turning with the other hand. Note that the wheel on the left hand side of the machine is a left hand thread, so loosening it will require turning it clockwise.

4. Remove the outer wheel flange and the paper disc.
5. Pull the wheel free from the arbor. There will also be a paper disc and a wheel flange on the back side of the wheel. Always make certain there is a paper or fiber disc between the wheel flanges and the wheel itself, this helps to spread the rotational forces across the inner area of the wheel. See Figure 5.

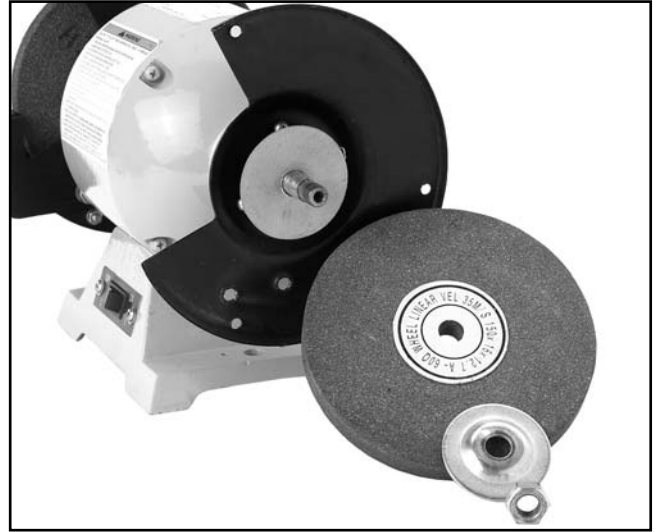


Figure 5. Grinding wheel assembly.

6. Mount the new wheel in the reverse order. First a wheel flange, a paper disc, the wheel, a paper disc, a wheel flange and finally the nut itself. Tighten the nut snugly but do not over tighten. Over tightening can crack the wheel.
7. Run a new wheel for at least 1-2 minutes while standing clear of the line of rotation. If a wheel does have defects it will generally fail as soon as it gets up to full speed.

⚠ CAUTION

NEVER assemble a grinding wheel on the arbor without paper or fiber discs between the wheel and the flange. Omitting the discs can put undue stress on the wheel causing it to crack and possibly fly apart. **ALWAYS** “ring check” a wheel before assembly to make certain it is sound with no cracks or flaws.

SECTION 6: MAINTENANCE

General

Make a habit of inspecting your Grinder each time you use it. Check for the following conditions and repair or replace when necessary:

1. Loose mounting bolts.
2. Worn switch.
3. Worn or damaged cords and plugs.
4. Damaged Grinding Wheel.
5. Any other condition that could hamper the safe operation of this machine.



Lubrication

The Model G9717 features factory-sealed bearings. A sealed bearing requires no lubrication during its lifetime. Should a bearing fail, your grinder will probably develop a noticeable rumble, which will increase when the machine is put under load. If the bad bearing is not replaced, it will eventually seize - possibly doing damage to other parts of the machine. Bearings are standard sizes and can be replaced through Grizzly.



Grinding Wheels

The grinding wheel should be inspected before every use. Use the ring check method noted in the Grinding Wheel section in Operations to verify the structural integrity. If using coolant during grinding, always run the wheel for 5-10 minutes at the end of the operation to remove any coolant from the wheel. Take care in storing grinding wheels to keep them free from potential damage by being dropped, or having other items drop on them.

Replace the wheel when the wheel diameter is reduced to 4". Operating at anything less than this diameter does not allow the proper alignment of the Tool Rest and the Eye Shield.

Depending on the type of grinding you do, the grinding wheel may require periodic dressing. There are several different types of wheel dressing devices available on the market. Use a suitable diamond or silicon carbide stick type dresser. Sweep it smoothly and evenly several times across the face of the wheel. Dressing restores the abrasive quality of the wheel surface, plus it will bring the wheel edge back to a square form. Refer to the instructions which accompany your dressing accessory for complete detail on wheel dressing.



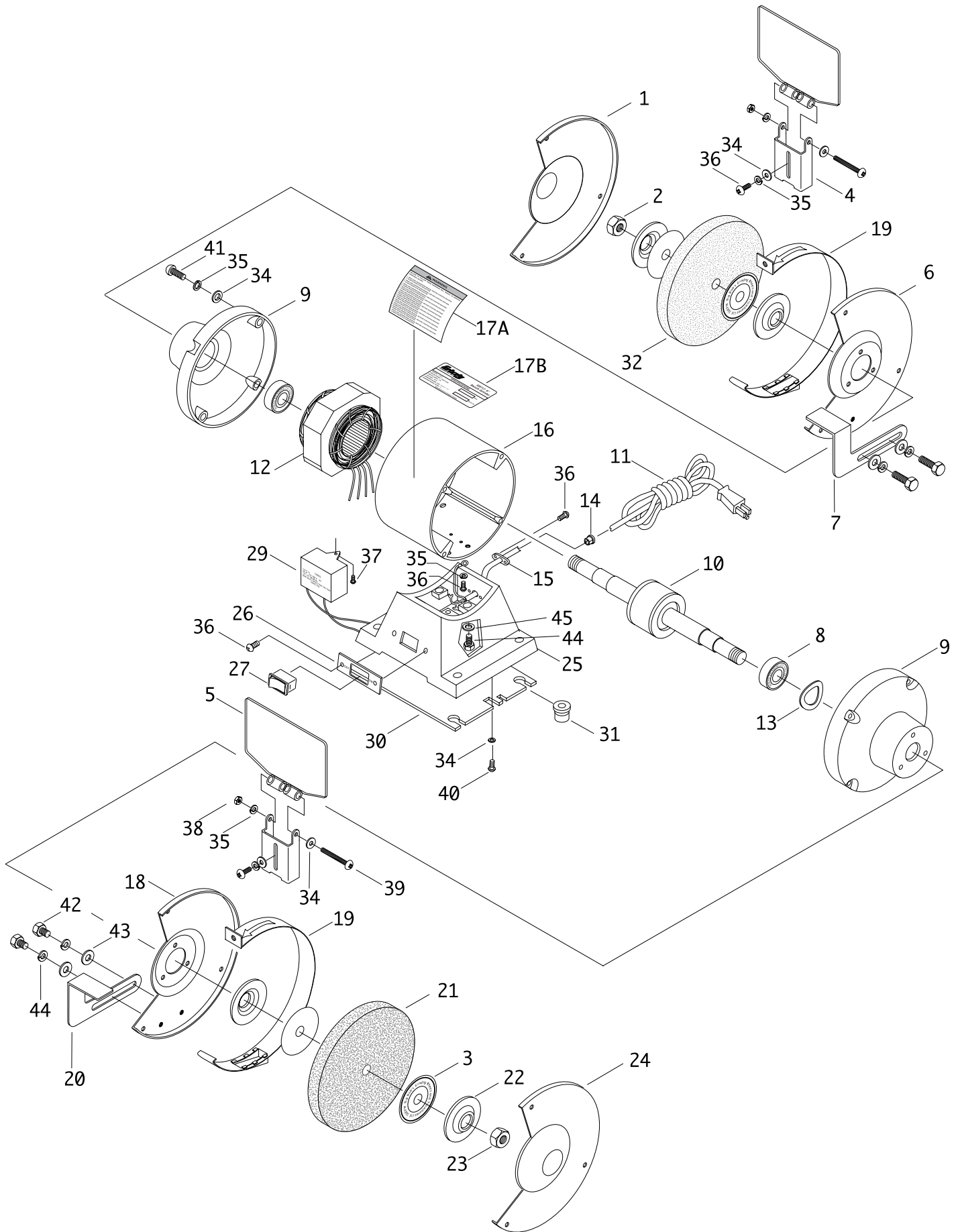
TROUBLESHOOTING

This section covers the most common processing problems encountered in grinding and what to do about them. Do not make any adjustments until grinder is unplugged and moving parts have come to a complete stop.

| SYMPTOM | POSSIBLE CAUSE | CORRECTIVE ACTION |
|---|---|--|
| Motor will not start. | <ol style="list-style-type: none"> 1. Low voltage. 2. Open circuit in motor or loose connections. | <ol style="list-style-type: none"> 1. Check power line for proper voltage. 2. Inspect all lead connections on motor for loose or open connections. |
| Motor will not start; fuses or circuit breakers blow. | <ol style="list-style-type: none"> 1. Short circuit in line cord or plug. 2. Short circuit in motor or loose connections. 3. Incorrect fuses or circuit breakers in power line. | <ol style="list-style-type: none"> 1. Inspect cord or plug for damaged insulation and shorted wires. 2. Inspect all connections on motor for loose or shorted terminals or worn insulation. 3. Install correct fuses or circuit breakers. |
| Motor overheats. | <ol style="list-style-type: none"> 1. Motor overloaded. 2. Air circulation through the motor restricted. | <ol style="list-style-type: none"> 1. Reduce load on motor. 2. Clean out motor to provide normal air circulation. |
| Motor stalls (resulting in blown fuses or tripped circuit). | <ol style="list-style-type: none"> 1. Short circuit in motor or loose connections. 2. Low voltage. 3. Incorrect fuses or circuit breakers in power line. 4. Motor overloaded. | <ol style="list-style-type: none"> 1. Inspect connections on motor for loose or shorted terminals or worn insulation. 2. Correct the low voltage conditions. 3. Install correct fuses or circuit breakers. 4. Reduce load on motor. |
| Machine slows when operating. | Depth of cut too great. | Slow down the rate of movement of the workpiece into wheel. |
| Wavy condition on surface of workpiece. | <ol style="list-style-type: none"> 1. Machine vibrating. 2. Workpiece not being held firmly. 3. Wheel face uneven. 4. Wheel is too hard. | <ol style="list-style-type: none"> 1. Make sure machine is securely mounted on a solid surface. 2. Use a holding device to firmly retain the workpiece. 3. Dress the grinding wheel. 4. Use softer wheel, or reduce the feed rate. |
| Lines on surface of workpiece. | <ol style="list-style-type: none"> 1. Impurity on wheel surface. 2. Workpiece not being held tightly. | <ol style="list-style-type: none"> 1. Dress the grinding wheel. 2. Use a holding device to firmly retain the workpiece. |
| Burning spots or cracks in the workpiece. | <ol style="list-style-type: none"> 1. Improper type of grinding wheel. 2. Improper feed rate. 3. Coolant required. | <ol style="list-style-type: none"> 1. Try a wheel which is softer style or a coarser grit. 2. Slow down the rate of movement of the workpiece into wheel. 3. Add optional coolant system or introduce coolant by hand. |
| Wheel dulls quickly, grit falls off. | <ol style="list-style-type: none"> 1. Depth of cut too great. 2. Wheel is too soft. 3. Wheel diameter too small. 4. Bad wheel dress. 5. Defective wheel bonding. | <ol style="list-style-type: none"> 1. Slow down the rate of movement of the workpiece into wheel. 2. Wheel too soft for the material being ground, select harder bond. 3. Replace the wheel. 4. Dress the wheel. 5. Consult manufacturer of grinding wheel. |
| Wheel clogs and workpiece shows burn marks. | <ol style="list-style-type: none"> 1. Wheel is too hard. 2. Feed rate too slow. 3. Bad wheel dress. 4. Coolant required. | <ol style="list-style-type: none"> 1. Wheel too hard for the material being ground, select softer bond. 2. Increase the rate of movement of the workpiece into wheel. 3. Dress the wheel. 4. Add optional coolant system or introduce coolant by hand. |

| Ref# | Part# | Description |
|------|------------|------------------------|
| 001 | P9717001 | WHEEL COVER LH OUTER |
| 002 | P9717002 | WHEEL NUT LH |
| 003 | P9717003 | WHEEL DISC |
| 004 | P9717004 | SPARK BREAKER |
| 005 | P9717005 | EYESHIELD |
| 006 | P9717006 | WHEEL COVER LH INNER |
| 007 | P9717007 | TOOL REST LH |
| 008 | P6202 | BALL BEARING 6202ZZ |
| 009 | P9717009 | BEARING HOUSING |
| 010 | P9717010 | ROTOR |
| 011 | PWRCRD110L | POWER CORD 110V W/PLUG |
| 012 | P9717012 | STATOR |
| 013 | P9717013 | WAVY WASHER |
| 014 | P9717014 | STRAIN RELIEF |
| 015 | P9717015 | MOUNTING PLATE |
| 016 | P9717016 | MOTOR BODY |
| 017A | P9717017A | WARNING LABEL |
| 017B | P9717017B | NAMEPLATE LABEL |
| 018 | P9717018 | WHEEL COVER RH INNER |
| 019 | P9717019 | WHEEL RIM GUARD |
| 020 | P9717020 | TOOL REST RH |
| 021 | P9717021 | GRINDING WHEEL 60 GRIT |
| 022 | P9717022 | WHEEL FLANGE |

| Ref# | Part# | Description |
|------|----------|------------------------|
| 023 | P9717023 | WHEEL NUT RH |
| 024 | P9717024 | WHEEL COVER RH OUTER |
| 025 | P9717025 | BASE |
| 026 | P9717026 | SWITCH PROTECTOR |
| 027 | P9717027 | SWITCH |
| 029 | P9717029 | CAPACITOR |
| 030 | P9717030 | BASE PLATE |
| 031 | P9717031 | RUBBER FOOT |
| 032 | P9717032 | GRINDING WHEEL 30 GRIT |
| 034 | PW02M | FLAT WASHER 5MM |
| 035 | PLW01M | LOCK WASHER 5MM |
| 036 | PS05M | PHLP HD SCR M5-.8 x 8 |
| 037 | PS07M | PHLP HD SCR M4-.7 X 8 |
| 038 | PN06M | HEX NUT M5-0.8 |
| 039 | P9717039 | PHLP HD SCR M5-.8 X 45 |
| 040 | PS09M | PHLP HD SCR M5-.8 X 10 |
| 041 | P9717041 | PHLP HD SCR M5-.8 X 13 |
| 042 | PB06M | HEX BOLT M8-1.25 X 12 |
| 043 | PW01M | FLAT WASHER 8MM |
| 044 | PLW04M | LOCK WASHER 8MM |
| 044 | PB18M | HEX BOLT M6-1 X 15 |
| 045 | PW03M | FLAT WASHER 6MM |
| | | |



WARRANTY AND RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We 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.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number", which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

WARRANTY CARD

NAME _____ PHONE NUMBER _____
STREET _____
CITY _____ STATE _____ ZIP _____
MODEL# _____ INVOICE# _____

The following information is given on a voluntary basis. This information will be used for marketing purposes to help Grizzly develop better products. Your name will be included in our mailing **list** only. It will not be sold to other companies. of course, all information is strictly confidential.

1. How did you find out about us?

Advertisement Friend Website
 Catalog Card deck Other _____

2. Do you think your machine represents good value? YES NO

3. Would you allow us to use your name as a reference for Grizzly customers in your area? YES NO
(Note: Your **name** will be used a maximum of three **times**.)

4. To which of the following publications do you subscribe? Check all that apply.

Home Shop Machinist Rifle Magazine Other _____
 Projects in Metal Hand Loader Magazine
 Modeltec Precision Shooter
 Live Steam RC Modeler
 Shotgun News Model Airplane News

5. What is your annual household income?

\$20,000-\$30,000 \$50,001-\$60,000 \$80,000-\$90,000
 \$30,001-\$40,000 \$60,001-\$70,000 +\$90,000
 \$40,001-\$50,000 \$70,001-\$80,000

6. To which age group do you belong?

20-30 41-50 61-70
 31-40 51-60 +70

7. Which of the following machines or accessories do you own? Check all that apply.

Engine Lathe Abrasive Cutoff Sheet Metal Machine
 Band Saw (Metal) Arc Welder Other _____
 Band Saw (Wood) Oxy/Ac. Outfit
 Milling Machine Air Compressor
 Bench Grinder Drill Press

8. How many of the machines you checked in Question 7 are Grizzly machines? _____

9. Which of the following tooling and accessories do you own? Check all that apply.

Milling Vises Collet Closer Digital Readout
 Indexing Head Taper Attachment Tool Post Grinder
 Rotary Table Boring Head Other _____

10. In the space below, list three tools you would like Grizzly to carry.

11. Of all the mail order metalworking company's you have purchased from, how do you rate Grizzly in terms of overall customer satisfaction?

The best Above average Average
 Below average The worst

12. Comments _____

CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE



Place
Stamp
Here



GRIZZLY INDUSTRIAL, INC.
P.O. BOX 2069
BELLINGHAM, WA 98227-2069



FOLD ALONG DOTTED LINE

Send a Grizzly Catalog to a friend:

| |
|----------------------------------|
| Name _____ |
| Street _____ |
| City _____ State _____ Zip _____ |

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>