

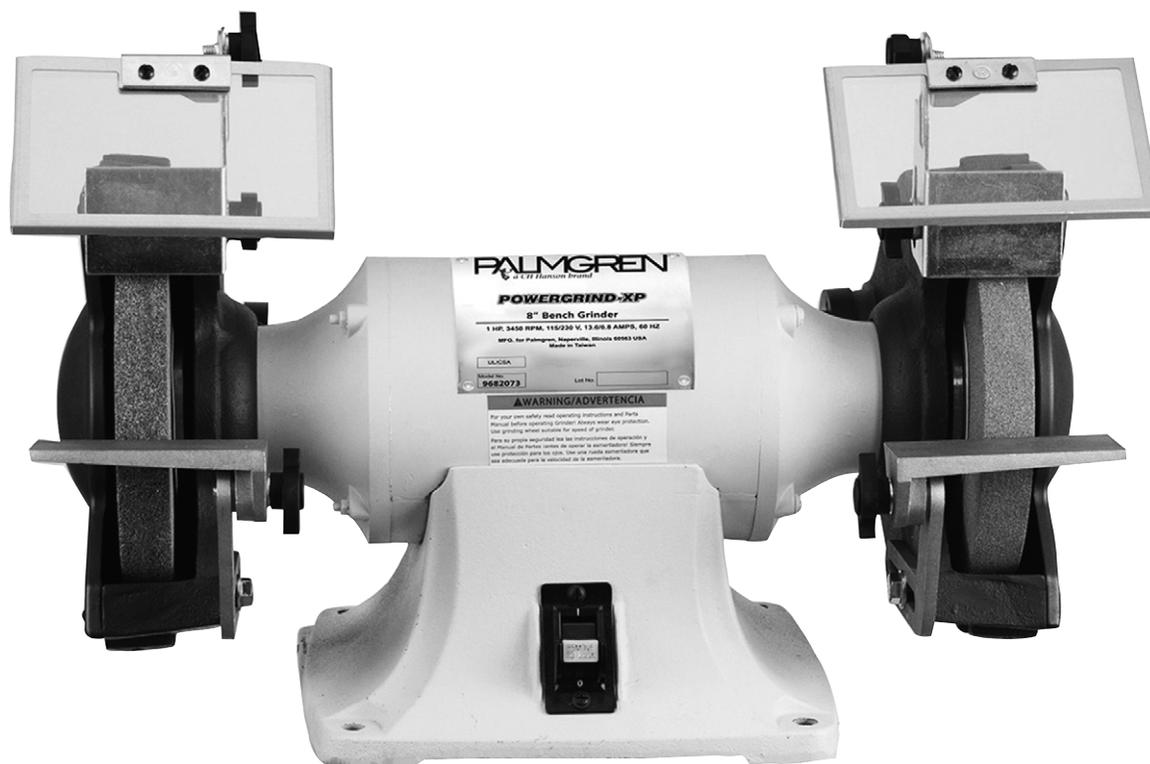
PALMGREN®

6", 8", & 10"

BENCH GRINDERS

ESMERILADORAS DE BANCO

TOURET À MEULER



Read carefully and follow all safety rules and operating instructions before first use of this product.

GETTING STARTED

STRUCTURAL REQUIREMENTS

Make sure all supporting structures and load attaching devices are strong enough to hold your intended loads. If in doubt, consult a qualified structural engineer.

ELECTRICAL REQUIREMENTS

The motor is designed for operation on the voltage and frequency specified. Normal loads will be handled safely on voltages not more than 10% above or below the specified voltage.

Running the unit on voltages which are not within the range may cause overheating and motor burn-out. Heavy loads require that the voltage at motor terminals be no less than the voltage specified.

TOOLS NEEDED:

Standard mechanic's hand tool set.

UNPACKING

WARNING: Be careful not to touch overhead power lines, piping, lighting, etc. if lifting equipment is used. Bench Grinder can weigh up to 125 lbs, proper tools, equipment and qualified personnel should be employed in all phases of unpacking and installation.

Crates should be handled with care to avoid damage from dropping, bumping, etc. Store and unpack crates with correct side up. After uncrating Bench Grinder, inspect carefully for any damage that may have occurred during transit. Check for loose, missing or damaged parts. If any damage or loss has occurred, claim must be filed with carrier immediately. Check for completeness. Immediately report missing parts to dealer.

Bench Grinder is shipped partially assembled. End user will need to assemble loose parts to machine.

CONTENTS:

- Bench Grinder (1)
- Knob (2)
- Flat washer, 5/16" (6)
- Tool rest bracket (2)
- Tool rest (2)
- Flat washer, 3/8" (2)
- Knob (2)
- Pan head screw, 3/16" x 3/8" (4)
- Upper eyeshield bracket (2)
- Eyeshield (2)
- Lower eyeshield bracket (2)
- Knob (2)
- Spark Deflector (2)
- Knob (2)
- Operating Instructions and Parts Manual (1)

UNPACK:

Unbolt Bench Grinder from pallet and carefully lift Bench Grinder from pallet using appropriate hoisting equipment. Do not discard packing materials until after machine has been inspected for damage and completeness. Locate loose parts and set aside.

INSPECT:

- After unpacking the unit, carefully inspect for any damage that may have occurred during transit. Check for loose, missing or damaged parts. Shipping damage claims must be filed with the carrier.

- To be certain the grinding wheels have not been damaged in shipment, strike the edges slightly with a metal object. A ringing sound indicates a good wheel, but a dull noise may signal a fracture.

WARNING: If you suspect a wheel of being fractured, replace it immediately. Fractured wheels may shatter, causing serious injury.

- All tools should be visually inspected before use, in addition to regular periodic maintenance inspections.
- Be sure that the voltage labeled on the unit matches your power supply.

SAFETY RULES

WARNING: For your own safety, read all of the instructions and precautions before operating tool.

PROPOSITION 65 WARNING: Some dust created by using power tools contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures 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. Always wear **OSHA/NIOSH** approved, properly fitting face mask or respirator when using such tools.

BE PREPARED FOR JOB

- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of machine.
- Wear protective hair covering to contain long hair.
- Wear safety shoes with non-slip soles.
- Wear safety glasses complying with United States ANSI Z87.1. Everyday glasses have only impact resistant lenses. They are **NOT** safety glasses.
- Wear face mask or dust mask if operation is dusty.
- Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

PREPARE WORK AREA FOR JOB

- Keep work area clean. Cluttered work areas and work benches invite accidents.
- Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.
- Work area should be properly lighted.
- 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. Extension Cord Table on page 4 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.
- Keep visitors at a safe distance from work area.
- Keep children out of the workplace. Make workshop childproof. Use padlocks, master switches or remove switch keys to prevent any unintentional use of power tools.

SAFETY RULES (CONTINUED)**TOOL SHOULD BE MAINTAINED**

- Always unplug tool prior to inspection.
- Consult manual for specific maintaining and adjusting procedures.
- Keep tool clean for safest operation.
- Remove adjusting tools. Form habit of checking to see that adjusting tools are removed before turning machine on.
- Keep all parts in working order. Check to determine that the guard or other parts will operate properly and perform their intended function.
- Check for damaged parts. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other condition that may affect a tool's operation.
- A guard or other part that is damaged should be properly repaired or replaced. Do not perform makeshift repairs. (Use the parts list to order replacement parts.)
- Maintain tools with care. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

KNOW HOW TO USE TOOL

- Use right tool for job. Do not force tool or attachment to do a job for which it was not designed.
- Disconnect tool from power when changing accessories such as grinding wheels, buffing wheels and the like.
- Avoid accidental start-up. Make sure that the switch is in the off position before plugging in.
- Do not force tool. It will work most efficiently at the rate for which it was designed.
- Keep hands away from moving parts and grinding surfaces.
- Never leave a tool running unattended. Turn the power off and do not leave tool until it comes to a complete stop.
- Do not overreach. Keep proper footing and balance.
- Never stand on tool. Serious injury could occur if tool is tipped over.
- Know your tool. Learn the tool's operation, application and specific limitations.
- Use recommended accessories. Understand and obey all safety instructions supplied with accessories. The use of improper accessories may cause risk of injury to persons.
- Do not over tighten wheel nut. Replace cracked wheel immediately. Use only flanges supplied with the grinder.
- Adjust distance between wheel and tool rest to maintain 1/16" or less gap.
- Handle the workpiece correctly. Whenever possible, use tool rest to support workpiece during grinding operation. Turn tool off if it jams.
- 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.
- Always use guards and eyeshields.
- Clean grinding dust from beneath tool frequently.
- Direction of feed. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

SPECIFICATIONS

| | 9682072A | 9682073A | 9682075A |
|----------------------------------|-----------|-----------|-----------|
| Horsepower | 1/2 | 1 | 1 ½ |
| Voltage | 115/230 | 115/230 | 115/230 |
| Amperes | 5.5/2.8 | 10/5 | 15/7.5 |
| Hertz | 60 | 60 | 60 |
| Phase | Single | Single | Single |
| RPM | 3600 | 3600 | 1800 |
| Rotation (viewed from left side) | Clockwise | Clockwise | Clockwise |
| Wheel diameter | 6 in. | 8 in. | 10 in. |
| Wheel bore | 1/2 in. | 5/8 in. | 1 in. |
| Wheel face | 3/4 in. | 1 in. | 1 in. |

ASSEMBLY

Parts to be fastened to the unit should be located and accounted for before assembly.

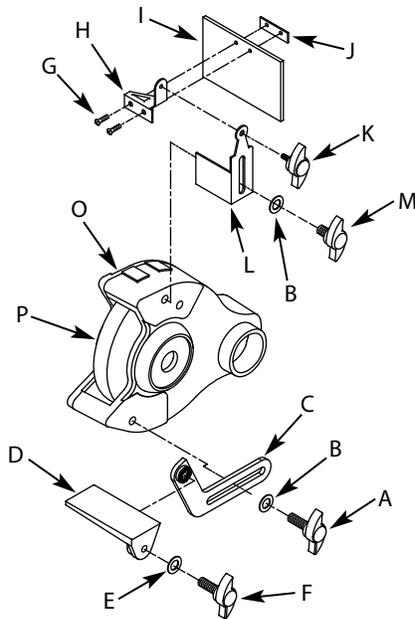
IMPORTANT: Do not attempt assembly if parts are missing. Use this manual to order replacement parts.

- A Knob (2)
- B Flat washer, 5/16" (6)
- C Tool rest bracket (2)
- D Tool rest (2)
- E Flat washer, 3/8" (2)
- F Knob (2)
- G Pan head screw, 3/16" x 3/8" (4)
- H Upper eyeshield bracket (2)
- I Eyeshield (2)
- J Lower eyeshield bracket (2)
- K Knob (2)
- L Spark Deflector (2)
- M Knob (2)

TOOL REST ASSEMBLY

Refer to Figure 1.

1. Place tool rest (D) over tool rest bracket (C) and secure in position with knob (F) and flat washer (E).
 2. Attach tool rest bracket (C) to the bottom of the wheel guard (O) using knob (A) and flat washer (B). Make sure that the slot of the bracket is located over the raised boss on the wheel guard. Secure in position with knob.
 3. Position tool rest (D) so that distance between tool rest (D) and wheel (P) is less than 1/16". Reposition angle of tool rest if necessary. Secure all knobs.
- Mount right tool rest in a similar manner.

ASSEMBLY (CONTINUED)**Figure 1 – Left tool rest and eyeshield assembly.****EYESHIELD ASSEMBLY**

Refer to Figure 1.

1. Attach spark guard (L) to left wheel guard (O) using knob (M), spring washer (N) and flat washer (B).
2. Mount left upper eyeshield bracket (H) to eyeshield (I) and lower eyeshield bracket (J) using two pan head screws (G).

NOTE: Left upper eyeshield bracket is stamped "L" for identification.

3. Slide knob (K) through hole at top of left spark deflector (L) into upper eyeshield bracket (H) and secure in position.
 4. Locate eyeshield in desired position for protecting operator and secure all knobs and bolts.
- Mount right eyeshield assembly in a similar manner.

DUST COLLECTION HOSE

- A dust collector hose has been provided with grinder. Slide hoses onto sides of T-connector and flanges. Mount the hose by sliding the flanges at each end over the exhaust ports on the left and right wheel guards. Attach 2½" shop vacuum hose to collector hose. Be sure hose is mounted securely.

DANGER: Be sure to empty shop vacuum of all flammable material (flammable liquids and vapors, paper, wood, plastic, etc.) before connecting vacuum to grinder. Hot sparks from grinder may ignite flammable materials in shop vacuum.

INSTALLATION**MOUNT GRINDER**

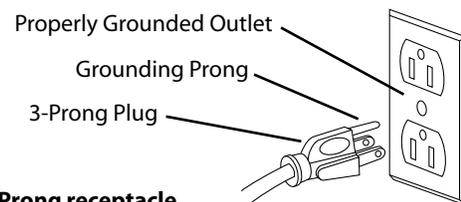
- Mount grinder to a solid horizontal surface (hardware not provided). If mounted to metal pedestal, align mounting holes with corresponding holes in pedestal. Insert a 1/4-20 x 1¼" hex head bolt with flat washer through base of grinder. From bottom of pedestal, place a 1/4" flat washer and 1/4"-20 hex nut onto the bolt. Tighten only until space between grinder base and pedestal is 1/8" (base should be flush for 9682075A). Using second nut on each bolt, jam tighten against the first to prevent loosening by vibration.

- To mount grinder to wooden bench top, use 1/4 x 1¼" wood screws with flat washers beneath heads. Tighten screws until space between grinder base and bench top is 1/8" (base should be flush for 9682075A).

GROUNDING INSTRUCTIONS

WARNING: Improper connection of equipment grounding conductor can result in the risk of electrical shock. Equipment should be grounded while in use to protect operator from electrical shock.

- Check with a qualified electrician if grounding instructions are not understood or if in doubt as to whether the tool is properly grounded.
- This grinder is equipped with an approved 3-conductor cord rated at 300V and a 3-prong, grounding type plug (See Figure 2) for your protection against shock hazards.
- Grounding plug should be plugged directly into a properly installed and grounded 3-prong grounding-type receptacle (See Figure 2).

**Figure 2 – 3-Prong receptacle.**

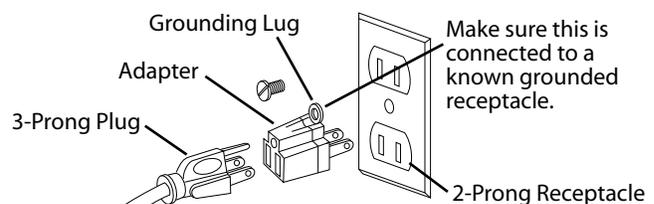
- Do not remove or alter grounding prong in any manner. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electrical shock.

WARNING: Do not permit fingers to touch the terminals of plug when installing or removing from outlet.

- Plug must be plugged into matching outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify plug provided. If it will not fit in outlet, have proper outlet installed by a qualified electrician.
- Inspect tool cords periodically, and, if damaged, have repaired by an authorized service facility.
- Green (or green and yellow) conductor in cord is the grounding wire. If repair or replacement of the electric cord or plug is necessary, do not connect the green (or green and yellow) wire to a live terminal.
- Where a 2-prong wall receptacle is encountered, it must be replaced with a properly grounded 3-prong receptacle installed in accordance with National Electric Code and local codes and ordinances.

WARNING: This work should be performed by a qualified electrician.

- A temporary 3-prong to 2-prong grounding adapter (See Figure 3) is available for connecting plugs to a two pole outlet if it is properly grounded.

**Figure 3 – 2-Prong receptacle with adapter.**

INSTALLATION (CONTINUED)

- Do not use a 3-prong to 2-prong grounding adapter unless permitted by local and national codes and ordinances. (A 3-prong to 2-prong grounding adapter is not permitted in Canada.) Where permitted, the rigid green tab or terminal on the side of the adapter must be securely connected to a permanent electrical ground such as a properly grounded water pipe, a properly grounded outlet box or a properly grounded wire system.
- Many cover plate screws, water pipes and outlet boxes are not properly grounded. To ensure proper ground, grounding means must be tested by a qualified electrician.

EXTENSION CORDS

- The use of any extension cord will cause some drop in voltage and loss of power.
- Wires of the extension cord must be of sufficient size to carry the current and maintain adequate voltage.
- Running the unit on voltages which are not within ±10% of the specified voltage may cause overheating and motor burn-out.
- Use the table to determine the minimum wire size (A.W.G.) extension cord.
- Use only 3-wire extension cords having 3-prong grounding type plugs and 3-pole receptacles which accept the tool plug.
- If the extension cord is worn, cut or damaged in any way, replace it immediately.

| Extension Cord Table | | | | | | |
|----------------------|----|-----------------------|------------------------------|-----|-----------------|-----|
| Ampere Rating | | Volts | Total Length of Cord in Feet | | | |
| More Than | | 120 | 25 | 50 | 100 | 150 |
| Not More Than | | 240 | 50 | 100 | 150 | 300 |
| | | Minimum Gage for Cord | | | | |
| 0 | 6 | | 18 | 16 | 16 | 14 |
| 6 | 10 | | 18 | 16 | 14 | 12 |
| 10 | 12 | | 16 | 16 | 14 | 12 |
| 12 | 16 | | 14 | 12 | Not Recommended | |

ELECTRICAL CONNECTIONS

WARNING: All electrical connections must be performed by a qualified electrician. Make sure tool is off and disconnected from power source while motor is mounted, connected, reconnected or anytime wiring is inspected.

- Motor and wires are installed as shown in wiring diagram (See Figure 4). Motor is assembled with approved, 3-conductor cord to be used at 115/230 volts. Motor is prewired at the factory for 115 volts.
- To use the grinder with a 230 volt power supply, have a qualified electrician rewire motor and attach a 230 volt, 15 amp three-prong plug onto grinder line cord.

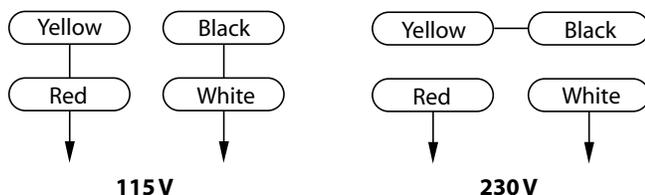


Figure 4 – Wiring Diagram

OPERATION

CAUTION: Always follow proper operating procedures as defined in this manual even if you are familiar with use of this or similar tools. Remember that being careless for even a fraction of a second can result in severe personal injury.

WARNING: Always wear safety glasses complying with United States ANSI Z87.1 (shown on package) before commencing power tool operation.

- Keep a steady, moderate pressure on the work and keep it moving at an even pace for smooth grinding.
- Pressing too hard overheats the motor and prematurely wears down the grinding wheels.
- Note the original bevel angle on the item to be sharpened and try to maintain that angle. Sharpening a cutting edge requires removing burrs from edge.
- Deburring edge is done best by using the grinder to pull burr from edge across the bevel angle.
- The grinding wheel should rotate into object being sharpened.
- Dip work into a coolant regularly to prevent overheating. Overheating can weaken metals.

MAINTENANCE

- As wheels wear, tool rests should be positioned closer to the face of the wheels.
- The gap between the wheel and the tool rest should not be greater than 1/16". When the wheels are worn to the extent that the 1/16" maximum gap cannot be maintained, the wheels should be replaced.
- Models 9682072A and 9682073A replacement wheels must have a minimum rated speed of at least 3600 RPM.
- Model 9682075A replacement wheels must have a minimum rated speed of 1800 RPM.
- Maximum wheel diameter is 6" for 9682072A, 8" for 9682073A, and 10" for 9682075A.
- To loosen nuts holding the wheels, disconnect power and push a wood wedge between the tool rest and the wheel to keep the shaft from turning. The threads on the right side of the grinder (facing unit) are right hand; threads on the left side are left hand. Tighten nuts securely before operating the grinder.
- For grinding efficiency, wheels should be dressed periodically, especially if they become clogged from grinding soft metals.

TROUBLESHOOTING

| SYMPTOM | POSSIBLE CAUSE(S) | CORRECTIVE ACTION |
|---|--|---|
| Grinder won't start | 1. Blown line fuse or tripped circuit breaker | 1. If fuse is blown, replace with fuse of proper size. If breaker tripped, reset it |
| | 2. Low line voltage | 2. Check power supply for voltage and correct as needed |
| | 3. Material wedged between wheel and guard | 3. Turn grinder off and remove material |
| | 4. Defective switch | 4. Replace switch |
| | 5. Defective, blown capacitor | 5. Replace capacitor |
| Excessive vibration | 1. Improper mounting of grinder or accessories | 1. Remount |
| | 2. Grinding wheel out of balance | 2. Dress wheels or replace wheels |
| | 3. Improper wheel mounting | 3. Remount wheels, but rotate one wheel 90° with respect to its previous position. Other wheel should remain in its original position |
| Motor overheating | 1. Excess pressure required to grind material | 1. Dress wheel or replace wheel with one of proper grit |
| | 2. Grinding on side of wheel | 2. Grind only on face of wheel |
| | 3. Motor not turning freely (without power) | 3. Clean around wheels and shaft and/or replace bearings |
| Fuses are being blown or circuit breakers are being tripped | 1. Overloading due to binding | 1. Clean around wheels and shaft and/or replace bearings |
| | 2. Defective plug | 2. Replace plug |
| | 3. Defective cord | 3. Replace cord |
| | 4. Defective switch | 4. Replace switch |
| | 5. Motor wired for different line voltage | 5. Rewire motor as per wiring diagram, (See Installation, Page 5) |
| | 6. Faulty internal wiring | 6. Contact your Palmgren Distributor |
| Motor does not develop proper torque | 1. Motor wired for different line voltage | 1. Rewire motor as per wiring diagram, (See Installation, Page 5) |

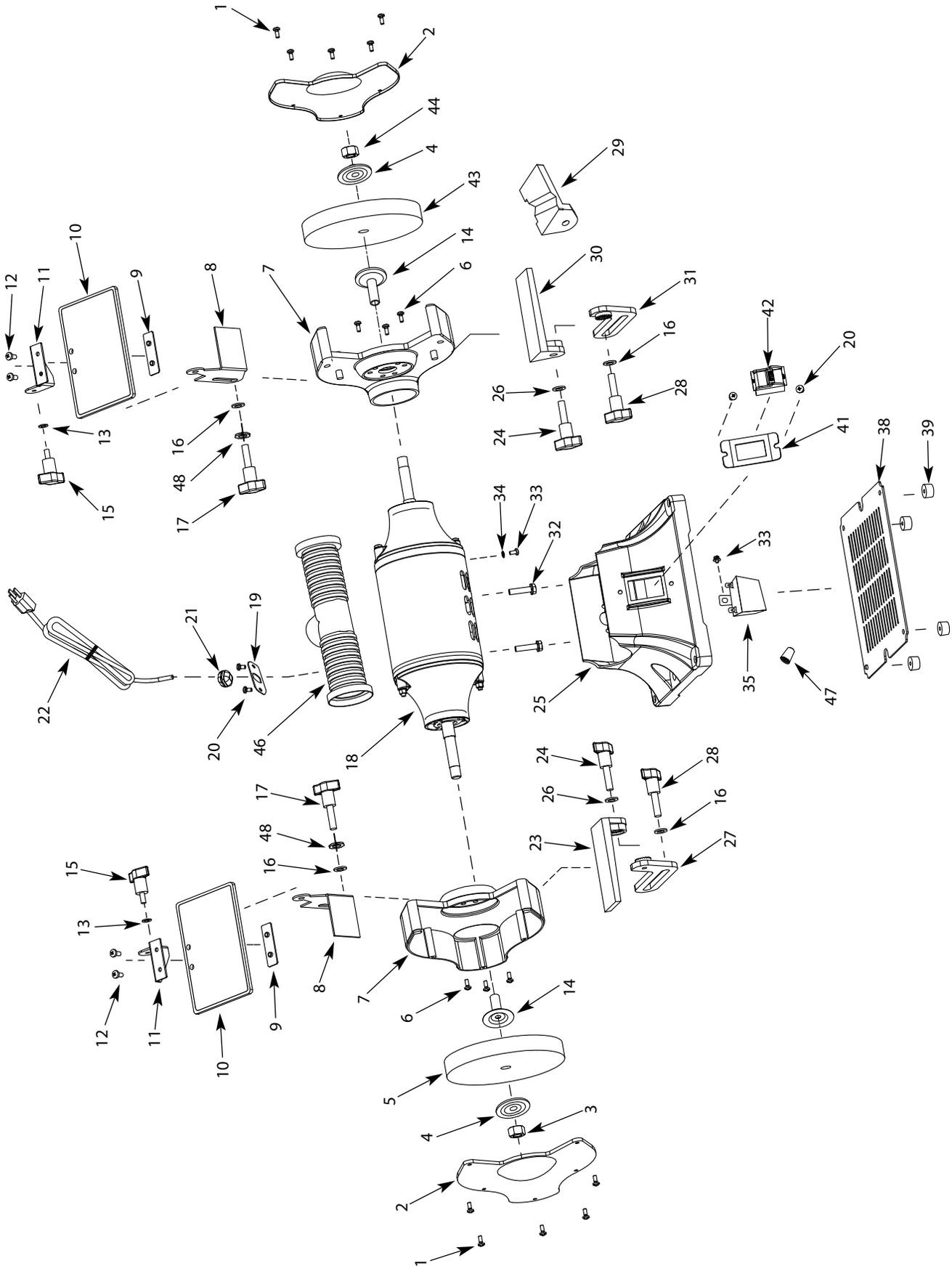


Figure 5 – Repair Parts Illustration for 9682072A, 6" Bench Grinder

REPAIR PARTS LIST FOR 9682072A, 6" BENCH GRINDER

| Ref. No. | Description | Part No. | Qty | Ref. No. | Description | Part No. | Qty. |
|----------|---|-----------|-----|----------|--|-----------|------|
| 1 | Phillips Screw, 3/16" x 3/8" | * | 10 | 24 | Locking Knob, 5/16" x 1" | 962581200 | 2 |
| 2 | Wheel Guard Cover | 962446402 | 2 | 25 | Base | N/A | 1 |
| 3 | Hex Nut, 1/2"-12, LH Thread | 960006400 | 1 | 26 | Flat Washer, 5/16" | * | 2 |
| 4 | Outer Wheel Flange | 961890400 | 2 | 27 | Tool Rest Bracket, Left | 962581002 | 1 |
| 5 | 6" Grinding Wheel, 36 Grit, 1/2" Bore | 960203400 | 1 | 28 | Locking Knob, 3/8 x 1/2" | 962581702 | 2 |
| 6 | Phillips Hex Bolt, Spring Washer, 1/4" x 5/8" | * | 6 | 29 | Grooved Tool Rest, Right | 962582501 | 1 |
| 7 | Wheel Guard | 962446502 | 2 | 30 | Tool Rest, Right | 962582502 | 1 |
| 8 | Spark Deflector (Set of 2) | 961684102 | 1 | 31 | Tool Rest Bracket, Right | 962582602 | 1 |
| 9 | Eyeshield Plate | N/A | 2 | 32 | Phillips Screw, Spring Washer, M6 x 15 | * | 2 |
| 10 | Eyeshield Kit (Includes 9, 10, 12) Set of 2 | 963229101 | 1 | 33 | Phillips Screw, 3/16" x 1/4" | * | 2 |
| 11 | Upper Eyeshield Bracket (Set of 2) | 962517702 | 1 | 34 | Star Lock Washer, 3/16" | * | 1 |
| 12 | Phillips Screw, 3/16" x 1/2" | * | 4 | 35 | Capacitor | 961690802 | 1 |
| 13 | Flat Washer, 1/4" | * | 2 | 38 | Base Plate | 962375802 | 1 |
| 14 | Inner Wheel Flange | 961731501 | 2 | 39 | Rubber Foot | 962399100 | 4 |
| 15 | Locking Knob, 1/4" x 1/2" | 962581600 | 2 | 41 | Switch Plate | 963628201 | 1 |
| 16 | Flat Washer, 3/8" | * | 4 | 42 | Switch | 960806601 | 1 |
| 17 | Spark Deflector Knob, 3/8" x 1/2" | 962581702 | 2 | 43 | 6" Grinding Wheel, 120 Grit, 1/2" Bore | 960204100 | 1 |
| 18 | Motor | N/A | 1 | 44 | Hex Nut, 1/2"-12, RH Thread | 960054800 | 1 |
| 19 | Clip Plate | 960809901 | 1 | 46 | Dust Port Assembly | 960807008 | 1 |
| 20 | Phillips Screw, 3/16" x 1/4" | * | 4 | 47 | Wire Nut | * | 1 |
| 21 | Cord Clip | * | 1 | 48 | Spring Washer, 3/8" | * | 2 |
| 22 | Power Cord | 960006701 | 1 | Δ | Operating Instructions & Parts Manual | 965078601 | |
| 23 | Tool Rest, Left | 962581302 | 1 | | | | |

(Δ) Not shown.

(N/A) Not available as repair part.

(*) Standard hardware item, available locally.

REPAIR PARTS LIST FOR 9682073A, 8" BENCH GRINDER

| Ref. No. | Description | Part No. | Qty | Ref. No. | Description | Part No. | Qty. |
|----------|---|-----------|-----|----------|---|-----------|------|
| 1 | Phillips Screw, 3/16" x 3/8" | * | 10 | 24 | Cord Clip | * | 1 |
| 2 | Wheel Guard Cover | 962449603 | 2 | 25 | Phillips Screw, 3/16" x 1/4" | * | 4 |
| 3 | Hex Nut, 5/8", LH Thread | 960008800 | 1 | 26 | Clip Plate | 960809901 | 1 |
| 4 | Outer Wheel Flange | 960008901 | 2 | 27 | Power Cord | 960009000 | 1 |
| 5 | 8" Grinding Wheel, 36 Grit, 5/8" Bore | 960203800 | 1 | 28 | Base | N/A | 1 |
| 6 | Wheel Guard Inner Cover | 962605602 | 2 | 29 | Phillips Hex Bolt, Spring Washer, M6 x 15 | * | 2 |
| 7 | Motor Assembly | N/A | 1 | 30 | Base Plate | 962450002 | 1 |
| 8 | Dust Port Assembly | 960807009 | 1 | 31 | Rubber Foot | 962399101 | 4 |
| 9 | Phillips Screw, 3/16" x 1/2" | N/A | 4 | 32 | Phillips Screw, 3/16" x 1/4" | * | 8 |
| 10 | Eyeshield Mounting Plate (Set-L&R) | 962517702 | 1 | 33 | Capacitor, 125 V/300 UF | 961664602 | 1 |
| 11 | Eyeshield (includes 9, 11, 12) Set of 2 | 963229101 | 1 | 34 | Capacitor Support | 961665501 | 1 |
| 12 | Eyeshield Plate | N/A | 2 | 37 | Tool Rest Bracket, Left | 963144702 | 1 |
| 13 | Spark Deflector (Set of 2) | 962581502 | 1 | 38 | Tool Rest, Left | 962581302 | 1 |
| 14 | Flat Washer, 1/4" | * | 2 | 39 | Flat Washer, 5/16" | * | 2 |
| 15 | Inner Wheel Flange | 962449801 | 2 | 40 | Locking Knob, 5/16" x 1" | 962581200 | 2 |
| 16 | Locking Knob, 1/4" x 1/2" | 962581600 | 2 | 41 | Tool Rest, Right | 962582502 | 1 |
| 17 | Flat Washer, 3/8" | * | 4 | 42 | Tool Rest Bracket, Right | 963144802 | 1 |
| 18 | Locking Knob, 3/8" x 1/2" | 962581702 | 4 | 43 | Switch Plate | 963628201 | 1 |
| 19 | Grooved Tool Rest, Right | 962582501 | 1 | 44 | Switch | 960806601 | 1 |
| 21 | 8" Grinding Wheel, 120 Grit, 5/8" Bore | 960204200 | 1 | 45 | Toothed Lock Washer, 3/16" | * | 1 |
| 22 | Phillips Hex Bolt, Spring Washer, 1/4" x 5/8" | * | 6 | 46 | Spring Washer, 3/8" | * | 2 |
| 23 | Hex Nut, 5/8" | * | 1 | Δ | Operating Instructions & Parts Manual | 965078601 | |

(Δ) Not shown.

(N/A) Not available as repair part.

(*) Standard hardware item, available locally.

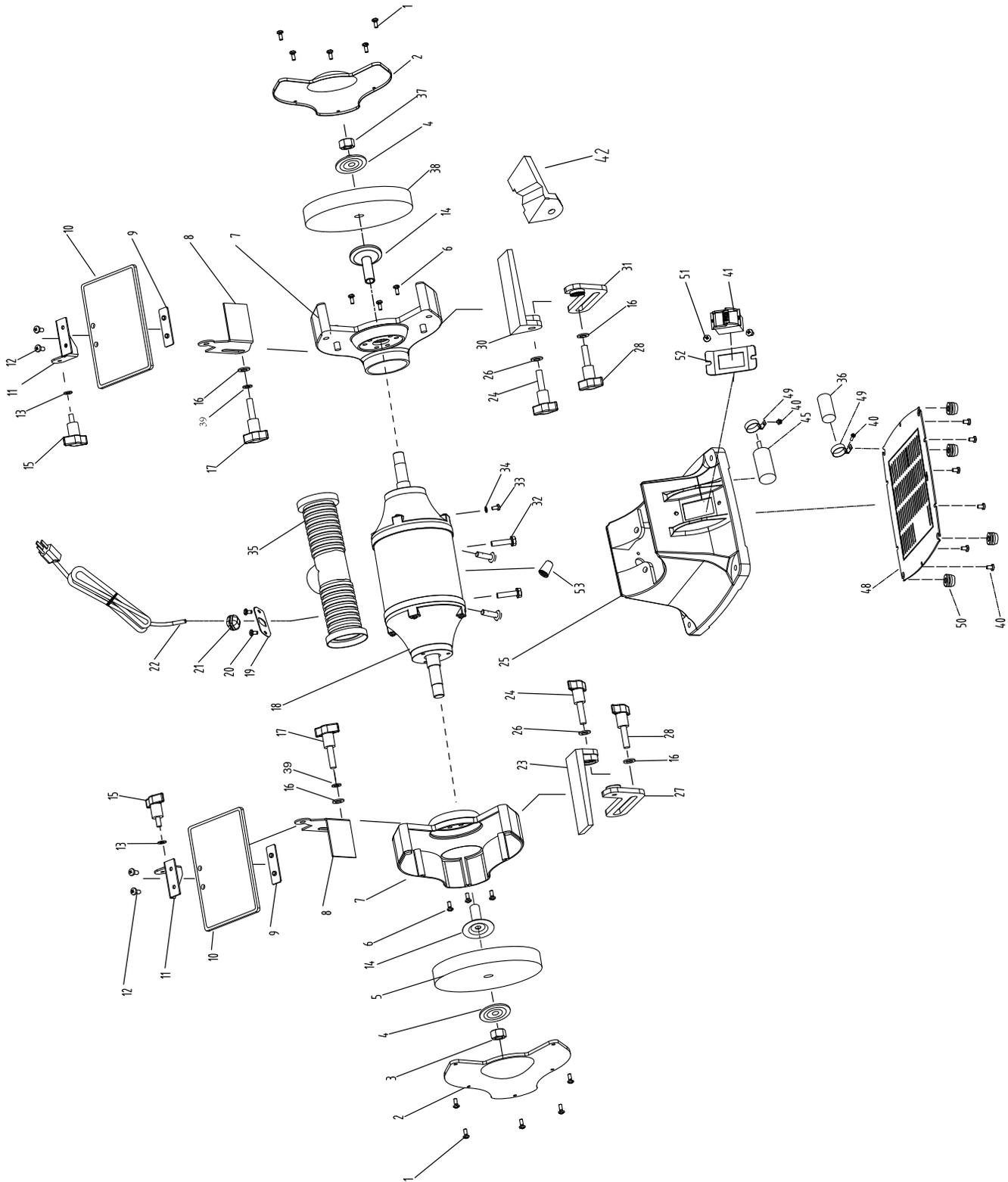


Figure 7 – Repair Parts Illustration for 9682075A, 10" Bench Grinder

REPAIR PARTS LIST FOR 9682075A, 10" BENCH GRINDER

| Ref. No. | Description | Part No. | Qty | Ref. No. | Description | Part No. | Qty. |
|----------|--|-----------|-----|----------|--|-----------|------|
| 1 | Phillips Screw, Spring Washer, 1/4" x 3/4" | * | 10 | 26 | Flat Washer, 5/16" | * | 2 |
| 2 | Wheel Guard Cover | 961691104 | 2 | 27 | Tool Rest Bracket, Left | 962629002 | 1 |
| 3 | Hex Nut 1", LH Thread | * | 1 | 28 | Locking Knob, 3/8" x 1/2" | 962581702 | 2 |
| 4 | Outer Wheel Flange | 962448000 | 2 | 30 | Tool Rest, Right | 962582502 | 1 |
| 5 | 10" Grinding Wheel 36 Grit, 1" Bore | 960204000 | 1 | 31 | Tool Rest Bracket, Right | 962629102 | 1 |
| 6 | Phillips Bolt, Spring Washer, 5/16" x 3/4" | * | 6 | 32 | Phillips Bolt, Spring Washer, 5/16" x 1" | * | 4 |
| 7 | Wheel Guard | 962605701 | 2 | 33 | Phillips Screw, 3/16" x 1/4" | * | 1 |
| 8 | Spark Deflector (Set of 2) | 962581502 | 1 | 34 | Toothed Lock Washer, 3/16" | * | 1 |
| 9 | Eyeshield Plate | N/A | 2 | 35 | Dust Port | 960807010 | 1 |
| 10 | Eyeshield Kit (Include 9,10,12) | 963229101 | 1 | 36 | Starting Capacitor | 964328701 | 1 |
| 11 | Upper Eyeshield Bracket (Set of 2) | 962517702 | 1 | 37 | Hex Nut, 1", RH Thread | * | 1 |
| 12 | Phillips Screw, 3/16" x 1/2" | N/A | 4 | 38 | 10" Grinding Wheel, 120 Grit, 1" Bore | 960204300 | 1 |
| 13 | Flat Washer, 1/4" | * | 2 | 39 | Spring Washer, 3/8" | * | 2 |
| 14 | Inner Wheel Flange | 962448101 | 2 | 40 | Phillips Screw, 3/16" x 1/4" | * | 8 |
| 15 | Locking Knob, 1/4" x 1/2" | 962581600 | 2 | 41 | Switch | 960806601 | 1 |
| 16 | Flat Washer, 3/8" | * | 4 | 42 | Grooved Tool Rest, Right | 962582501 | 1 |
| 17 | Locking Knob, 3/8" x 1/2" | 962581702 | 2 | 45 | Running Capacitor | 964328901 | 1 |
| 18 | Motor | N/A | 1 | 48 | Base Plate | 961691902 | 1 |
| 19 | Cord Clip Plate | 960809901 | 1 | 49 | Capacitor Support | 964290901 | 2 |
| 20 | Phillips Screw, 3/16" x 1/4" | * | 4 | 50 | Rubber Foot | 963229100 | 4 |
| 21 | Lead Wire Clip | * | 1 | 51 | Phillips Screw, 3/16" x 3/8" | * | 2 |
| 22 | Power Cord | N/A | 1 | 52 | Switch Plate | 963628201 | 1 |
| 23 | Tool Rest, Left | 962581302 | 1 | 53 | Wire Nut | 961689901 | 1 |
| 24 | Locking Knob, 5/16" x 1" | 962581200 | 2 | Δ | Operating Instructions & Parts Manual | 965078601 | |
| 25 | Base | N/A | 1 | | | | |

(Δ) Not shown.

(N/A) Not available as repair part.

(*) Standard hardware item, available locally.

PALMGREN WARRANTY

C.H. Hanson / Palmgren warrants their products to be free of defects in material or workmanship. This warranty does not cover defects due directly or indirectly to misuse, abuse, normal wear and tear, failure to properly maintain the product, heated, ground or otherwise altered, or used for a purpose other than that for which it was intended.

The warranty does not cover expendable and/or wear part (i.e. v-belts, screws, abrasives, jaws), damage to tools arising from alteration, abuse or use other than their intended purpose, packing and freight. The duration of this warranty is expressly limited to the terms noted below beginning from the date of delivery to the original user.

The Palmgren branded items carry the following warranties on parts:

All arbor presses, vises, clamps, positioning tables, tombstones, jack screws and vise accessories - LIFETIME.

All bench grinders, drill presses, tapping machines, band saws, lathes, milling machines, abrasive finishing machines and work stands - 3 YEARS.

The obligation of C.H. Hanson / Palmgren is limited solely to the repair or replacement, at our option, at its factory or authorized repair agent of any part that should prove inoperable. Purchaser must lubricate and maintain the product under normal operating conditions at all times. Prior to operation become familiar with product and the included materials, i.e. warnings, cautions and manuals.

Failure to follow these instructions will void the warranty.

This warranty is the purchaser's exclusive remedy against C.H. Hanson for any inoperable parts in its product. Under no circumstances is C.H. Hanson liable for any direct, indirect, incidental, special or consequential damages including loss of profits in any way related to the use or inability to use our products. This warranty gives you specific legal rights which may vary from state to state.

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