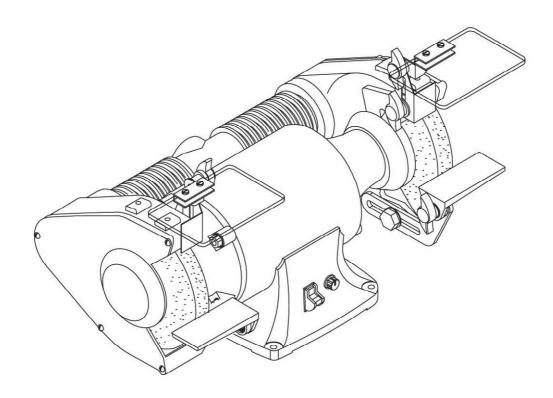
PALMGREN

6", 8" & 10" BENCH GRINDER



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

DESCRIPTION

Palmgren Bench Grinders are equipped with a totally enclosed ball bearing motor. Armature assembly is dynamically balanced for smooth operation. Motor housing is compact so long pieces of work can press against both wheels without touching the motor frame. Removable wheel guards allow for easy changing of wheels. Two-way tool rests are adjustable for wheel wear and angle grinding. Grinders come complete with spark guards, safety eyeshields and dust collection hose. (Dust Collection hose not included with 82061C).

UNPACKING

Check for shipping damage. If damage has occurred, a claim must be filed with the carrier immediately. Check for completeness. Immediately report missing parts to dealer.

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.

SPECIFICATIONS

6" Bench Grinder

o benen dimaci	
Horsepower	
Voltage	115/230
Amperes	6.0/3.0
Hertz	60
Phase	Single
RPM	3450
Rotation (viewed from left side)	Clockwise
Wheel diameter	6"
Wheel bore	
8" Bench Grinder	
Horsepower	1Hp
Voltage	115/230
Amperes	5.0/2.5
Hertz	60
Phase	
RPM	3450
Rotation (viewed from left side)	Clockwise
Wheel diameter	8″
Wheel bore	5/8"
10" Bench Grinder	
Horsepower	• • • • • • • • • • • • • • • • • • •
Voltage	115/230
Amperes	12/6.0
Hertz	60
Phase	Single
RPM	1725
Rotation (viewed from left side)	Clockwise
Wheel diameter	10"
Wheel hore	1"

SAFETY RULES

WARNING: For your own safety, read operating instructions manual before operating tool.

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: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known 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 vary, 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.
- Proper electrical plug should be plugged directly into properly grounded, three-prong receptacle.
- Extension cords should have a grounding prong and the three wires of the extension cord should be of the correct gauge.
- 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.

TOOL SHOULD BE MAINTAINED

- · Always unplug tool prior to inspection.
- Consult manual for specific maintaining and adjusting procedures.

SAFETY RULES (CONTINUED)

- 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.)

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.
- Always use guards and eyeshields.
- Clean grinding dust from beneath tool frequently.

ASSEMBLY

Parts to be fastened to the unit should be located and accounted for (See List and Figure 1).

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

A 3/8-16 x 3/4" Hex head bolt, 2 each

B 3/8" Flat washer, 4 each

C Tool rest bracket (left & right), 2 each

D Tool rest (left & right), 2 each

E 5/16" Flat washer, 2 each

F 5/16-18 x 1" Knob, 2 each

G #10-24 x 3/8" Pan head screw, 4 each

H Upper eyeshield bracket (left & right), 2 each

Eyeshield, 2 each

J Lower eyeshield bracket, 2 each

K 1/4-20 x 1/2" Knob, 2 each

L Spark guard (left & right), 2 each

M $\frac{3}{8}$ -16 x $\frac{1}{2}$ Knob, 2 each

Dust collector hose not shown.

TOOL REST ASSEMBLY

Place tool rest (D) over tool rest bracket and secure in position

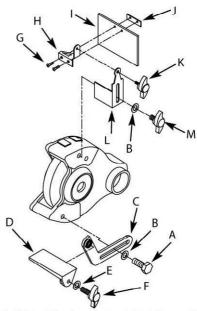


Figure 1 - Left Tool Rest and Eyeshield Assembly

with 5/16-18 x 1" knob (F).

- Attach tool rest bracket to the bottom of the left wheel guard using one 3/8-16 x 3/4" heax head bolt (A) and one 3/8" flat washer (B). Make sure that the slot of the braket is located over the raised boss on the guard. Tight bolts finger tight.
- Position tool rest so that distance between tool rest and grinding wheel is less than 1/16". Reposition angle of tool rest if necessary. Secure all knobs and bolts.
- Mount right tool rest in a similar manner.

EYESHIELD ASSEMBLY

- Attach spark guard (L) to left wheel guard using ³/₈-16 x ¹/₂" knob (M) and ³/₈" flat washer (B).
- Mount left upper eyeshield bracket (H) to eyeshield (I) using two #10-24 x ³/₈" pan head screws (G) ad lower eyeshield bracket.

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

- Slide ¹/₄-20 x ¹/₂" knob (K) through hole at top of left spark guard (L) into upper upper eyeshield bracket (H) and secure in position.
- Locate eyeshield in desired position for protecting operator and secure all knobs and bolts.
- Mount right eyeshield assembly in a similar manner.

DUST COLLECTOR 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 11/4" 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 82101B). Using second nut on each bolt, jam tighten against the first to prevent loosening by vibration.
- To mount grinder to wooden bench top, use ½ x 1½ wood screws with flat washers beneath heads. Tighten screws until space between grinder base and bench top is ½ (base should be flush for 82101B).

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).

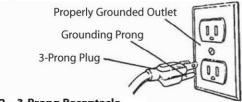


Figure 2 – 3-Prong Receptacle

 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.

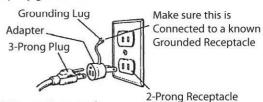


Figure 3 - 2-Prong Receptacle

- 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 $\pm 10\%$ 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 LENGTH for Models 9682072 and 9682073

Up to 25 ft
NOTE: Using extension cords over 25 ft. long is not recommended
EXTENSION CORD LENGTH for Model 9682075
Wire Size A W G

NOTE: Using extension cords over 25 ft. long is 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, page 5). 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 230V power supply, have a qualified electrician rewire motor and attach a 230volt, I5A three-prong plug onto grinder line cord.

INSTALLATION (CONTINUED)

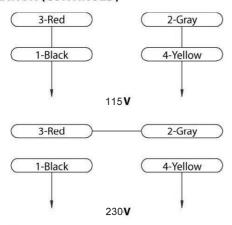


Figure 4 - Wiring Diagram

OPERATION

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 '/16". When the wheels are worn to the extent that the '/16" maximum gap cannot be maintained, the wheels should be replaced.
- Models 9682072 and 9682073 : Replacement wheels should have a minimum rated speed of at least 3600 RPM
- Model 9682075 Replacement wheels must have a minimum rated speed of 1800 RPM.
- Maximum wheel diameter is 6" for 9682072
 ,8" for 9682073, and 10" for 9682075.
- 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.

Palmgren Operating Manual & Parts List	
	6

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Grinder won't start	1. Blown line fuse or tripped circuit breaker	 If fuse is blown, replace with fuse of proper size. If breaker tripped, reset it
	2. Low line voltage	Check power supply for voltage and correct as needed
	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	 Improper mounting of grinder or accessories 	1. Remount
	2. Grinding wheel out of balance	2. Dress wheels or replace wheels
	3. Improper wheel mounting	 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	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)	Clean around wheels and shaft and/or replace bearings
Fuses are being blown or circuit breakers are being tripped	1. Overloading due to binding	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	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	Rewire motor as per wiring diagram, (See Installation, Page 5)

9682072

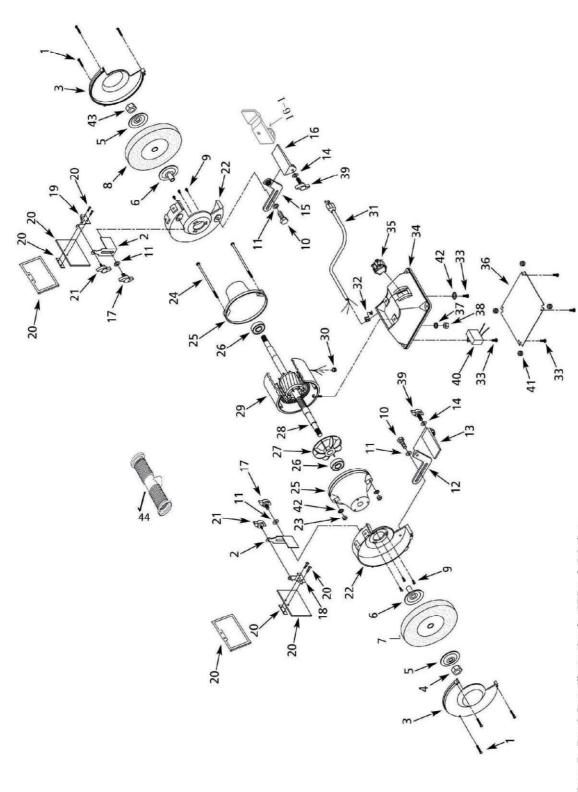


Figure 5 – Repair Parts Illustration for 6" Bench Grinders

Palmgren Operating Manual & Parts List

No. Description Number Qty No. Description 1 Dust collector head screw 9608070 03 1 25 #10.24x //* Flange screw 3 Spark gland f Set of 2] 18841.00 1 28 #10.24x //* Flange screw 4 Wheel guard cover 19841.00 1 22 //*-Cax //* Flange screw 5 Flange 19804.00 1 28 5.08 x John Pan head screw 6 Wheel guard cover 2444.40 2 2 9.6 Endshilled 7 Inner wheel flange 10064.00 1 31 Amature 8 Grinding wheel (30 coarse grit) 00064.00 1 33 Stator with housing 9 Grinding wheel (30 coarse grit) 802041.00 1 33 Stator with housing 10 W-16 x 1/4* Hex head bolt * * 4 Grinding wheel (30 coarse grit) * 4 35 Inter cord 11 S-08mm Hex nut * * 4 34 Grinding wut		R	EPLACEMENT PAR	TS LIST	r For	REPLACEMENT PARTS LIST FOR 6" BENCH GRINDER		
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#10-24 x //* Pan head screw * 10 26 #10-24 x //* Flange screw Dust collector hose 9600070.03 1 27 //*-24 x //* Flange screw Wheel guard cover 16841.00 1 27 //*-20 x 200mm Pan head screw Wheel guard cover 18904.00 2 30 Bearing 62022Z //*-12 Hex nnt (LH thread) 00064.00 1 31 Motor fan //*-12 Hex nnt (LH thread) 00064.00 1 31 Amature head screw //*-12 Hex nnt wheel flange 00064.00 1 31 Amature head screw //*-14 Hex head bolt * 3 Strain with housing Grinding wheel (3c Fine grit) * 4 35 Line cord //*-16 K 1//* Text washer * 4 35 Line cord //*-18 K 1//* Carriage bolt * 4 37 Base bumper //*-18 K 1//* Carriage bolt * 4 3 Suitch with key //*-18 Hex nut * 4 4 4 4 4	No.	Description	Number	Qty.	No.	Description	Number	Qty.
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//= 12 Hex nut (LH thread) 00064.00 1 31 Motor fan Inner wheel flange 17316.00 2 32 Ammature Grinding wheel (36 coarse grit) 9602041.00 1 33 Stator with housing Grinding wheel (36 coarse grit) 9602041.00 1 34 Grommet %-16 x 1½" Hex head bolt * 4 35 Line cord 5-0.8mm Hex nut * 4 35 Line cord ½"-16 kex nut * 4 37 Base cover ½"-16 kex nut * 4 37 Base cover ½"-18 hex nut * 4 37 Base bumper Jose respired busher * 4 1 ½"-10 ck want Jose respired busher * 4 4 1 ½"-10 ck want Jose schield busher (ifelt) 04029.00 2 42 ½"-12 hex nut (RH thread) Upper eyeshield busher (ifelt) 02281.00 1 A Kerommended Accessories Jose schield kit 02281.00 <td>5</td> <td>Flange</td> <td>18904.00</td> <td>2</td> <td>30</td> <td>Bearing 6202ZZ</td> <td>01540.00</td> <td>2</td>	5	Flange	18904.00	2	30	Bearing 6202ZZ	01540.00	2
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3/-16 x 1/4" Hex head bolt * 4 35 Line cord 5-08mm Hex nut * 2 36 Strain relief 3//-16 Hex nut * 4 37 Base cover 3//-16 Hex nut * 4 37 Base cover 3//-16 Hex nut * 4028.00 2 38 Base bumper 1 rol rest 04030.00 2 41 1//-1 Lok washer 3//-7 Hex nut * 4 1//-2 Lok washer 3//-7 Hex nut * 4 1//-1 Lok washer 3//-18 Hex nut * 4 1//-1 Lok washer 3//-18 Hex nut * 4 1//-1 Lok washer 3//-18 Hex nut * 1 1//-1 Lok washer 3//-18 Hex nut * 1 1//-1 Lok washer 3//-18 Hex nut * 1 1//-1 Hex nut * 9//-20 x 1//-x Mob * 1 1 1//-1 Hex nut * 1 Upper eyeshield bracket (right) 00282.01 1 1	6	Grinding wheel (120 Fine grit)	9602041.00	-	34	Grommet	01066.00	-
5-0.8mm Hex nut * 2 36 Strain relief 3//" Flat washer * 4 37 Base cover 3//"-16 Hex nut * 2 38 Base cover 5//"-16 Hex nut * 40 Base bumper 5//"-18 Lat washer * 40 Base bumper 5//"-18 Hex nut * 41 1//"-10ck washer 5//"-18 Hex nut * 42 1//"-20 Hex nut 8 racket * 43 Capacitor Bracket * 43 Capacitor Bracket * 43 Capacitor Upper eyeshield bracket (left) 00284.01 1 1/"-12 Hex nut (RH thread) Upper eyeshield bracket (right) 00284.01 1 1/"-12 Hex nut (RH thread) Upper eyeshield bracket (right) 00282.01 1 A cast iron tool stand Eyeshield kit 00282.01 1 A wheel dresser 3/-5-16 x 1/" Knob 28/5-16 x 1/" Number eyeshield A wheel dresser 3/5-16 x 1/" Number eyeshield A whe	10	$\frac{3}{8}$ -16 x 11/4" Hex head bolt	*	4	35	Line cord	00067.00	-
½/f=Iat washer * 4 37 Base cover ½/f=16 Hex nut * 2 38 Base ½/f=16 Hex nut * 2 39 Switch with key Spacer 4028.00 2 40 Base bumper Iool rest * 41 ½/²Lock washer ½/6,*Flat washer * 2 42 ½/²-20 Hex nut ½/6,*Flat washer * 43 ¼/²-20 Hex nut 3/6,*IB Hex nut * 2 43 ¼/²-20 Hex nut Bracket * 4 #10 Serrated washer J/a-20 x ½/²- Knob 25816.00 2 44 #10 Serrated washer Upper eyeshield bracket (left) 00284.01 1 A cast iron tool stand Upper eyeshield kit 9632291.00 1 A Wheel dresser 3/6*16 x ½/²- Knob 2 A Wheel dresser 3/6*16 x ½/²- Knob 2 A Wheel dresser 3/6*16 x ½/²- Knob 2 A Wheel dresser 3/6*16 x ½/²- Knob A Wheel dresser	11	5-0.8mm Hex nut	*	2	36	Strain relief	04055.00	-
%**=16 Hex nut ** 2 38 Base %*=18 x 1/2" Carriage bolt * 2 39 Switch with key Spacer 4028.00 2 40 Base bumper Tool rest * 41 //**Lock washer */**-I8 Hex nut * 2 42 //**-20 Hex nut 8 Frack*-I8 Hex nut * 2 43 Capacitor Bracket * 2 43 Capacitor Bracket * 43 Capacitor Upper eyeshield bracket (left) 004029.00 2 44 #10 Serrated washer Upper eyeshield bracket (left) 00282.01 1 Accommended Accessories Upper eyeshield bracket (right) 00282.01 1 Accommended Accessories Upper eyeshield bracket (right) 9832291.00 1 Accommended Accessories 3/s*-16 x 1/s** Knob 2 Action tool stand 3/s*-16 x 1/s** Knob 2 Action tool stand 4 x 1/s** Chromed eyeshield bracket (right) Action tool stand	12	³/" Flat washer	*	4	37	Base cover	23758.00	-
%-IB x 1/½" Carriage bolt * 2 39 Switch with key Spacer 4028.00 2 40 Base bumper Tool rest * 41 /¼" Lock washer ½"= IB the washer * 42 /¼"-20 Hex nut ½"= IB the washer * 43 Capacitor Bracket 04029.00 2 43 Apacitor Upper eyeshield bracket (left) 00284.01 1 Acpacitor Upper eyeshield bracket (right) 00282.01 1 Accommended Accessories Upper eyeshield bracket (right) 00282.01 1 Accommended Accessories Upper eyeshield kit 25817.00 2 Accommended Accessories 3/s-16 x /½" Knob 25817.00 2 Accession ics 3/s-16 x /½" Knob 2 Accession ics Accession ics Wheel guard 24465.09 2 Accession ics Groowed Tool Rest(Right) 2 Accession ics Browned Tool Rest(Right) 2 Accession ics Browned Tool Rest(Right)	13	3/8"-16 Hex nut	*	2	38	Base	23757.09	-
Spacer 4028.00 2 40 Base bumper Tool rest ** 41 1/4" Lock washer \$/6" Flat washer ** 2 42 1/4" Lock washer \$/6" Flat washer ** 2 42 1/4" 20 Hex nut Bracket ** 2 43 Capacitor Bracket 04029.00 2 44 #10 Serrated washer J/4" Lock N/4" Knob 00284.01 1 */2" Lock washer Upper eyeshield bracket (left) 00282.01 1 */2" Lock washer Upper eyeshield bracket (right) 00282.01 1 A cast iron tool stand Eyeshield kit 00282.01 1 A Wheel dresser 3/6-16 x ½" Knob 25817.00 2 A Lighted eyeshield Wheel guard 24465.09 2 A Lighted eyeshield	14	$^{5}/_{16}$ -18 x 1 $^{1}/_{2}$ " Carriage bolt	*	2	39	Switch with key	08066.00	—
Tool rest Tool rest 41 ¼"Lock washer ¾"-Ist washer * 42 ¼"-20 Hex nut ¾"-Ist washer * 43 Apacitor Bracket 04029.00 2 44 #10 Serrated washer ½"-20 x ½" Knob 25816.00 2 45 ½"-12 Hex nut (RH thread) Upper eyeshield bracket (left) 00284.01 1 A Cast iron tool stand Upper eyeshield bracket (right) 00282.01 1 A Wheel dresser Eyeshield kit 9632291.00 1 A Wheel dresser ¾"-I x ¼" Knob 25817.00 2 A Lighted eyeshield Wheel guard 24465.09 2 A Lighted eyeshield Grooved Tool Rest(Right) 9625825.01 1 A Lighted eyeshield	15	Spacer	4028.00	2	40	Base bumper	23991.00	4
\$\(\)_{\elsigned}^{\elsigned} Flat washer * 42 \\signed_{\elsigned}^{\elsigned} -20 Hex nut \$\(\)_{\elsigned}^{\elsigned} -18 Hex nut * 43 Capacitor Bracket 04029.00 2 44 #10 Serrated washer \$\(\)_{\elsigned}^{\elsigned} -12 Hex nut (RH thread) 1 \(\)_{\elsigned}^{\elsigned} -12 Hex nut Upper eyeshield bracket (left) 00284.01 1 \(\) Recommended Accessories Upper eyeshield bracket (right) 00282.01 1 \(\) Awheel dresser Eyeshield kit 25817.00 2 \(\) Wheel dresser \$\(\)_{\elsigned}^{\elsigned} -16 x \(\)_{\alpha}^{\elsigned} floor 2 \(\) Lighted eyeshield Wheel guard 24465.09 2 \(\) Lighted eyeshield Grooved Tool Rest(Right) 9625825.01 1 \(\) Lighted eyeshield	16	Tool rest	04030.00	2	41	1/4" Lock washer	*	2
\$\(\)_{\elsigned{c}}^{\elsigned{c}} - 18 \text{ Hex nut} * 2 43 Capacitor Bracket 04029.00 2 44 #10 Serrated washer \$\(\)_{\sqrt{a}}^{\sqrt{a}} - 20 \times \(\)_{\sqrt{a}}^{\sqrt{a}} \text{ Knob} 00284.01 1 \$\(\)_{\sqrt{a}}^{\sqrt{a}} - 12 \text{ Hex nut } (RH thread) Upper eyeshield bracket (left) 00284.01 1 \$\(\)_{\sqrt{a}}^{\sqrt{a}} - 12 \text{ Hex nut } (RH thread) Upper eyeshield bracket (right) 00282.01 1 \$\(\)_{\sqrt{a}} \text{ Commended Accessories} Upper eyeshield bracket (right) 9632291.00 1 \$\(\)_{\sqrt{a}} \text{ Wheel dresser} \$\(\)_{\sqrt{a}} \text{ Rob} 2 \$\(\)_{\sqrt{a}} \text{ Hithed eyeshield} \$\(\)_{\sqrt{a}} \text{ Hob} 2 \$\(\)_{\sqrt{a}} \text{ Light} \$\(\)_{\sqrt{a}} \text{ Hob} 2 \$\(\)_{\sqrt{a}} \text{ Light} \$\(\)_{\sqrt{a}} \text{ Hithed eyeshield eyestield} 2 \$\(\)_{\sqrt{a}} \text{ Light} \$\(\)_{\sqrt{a}} \text{ Hob} 2 \$\(\)_{\sqrt{a}} \text{ Light} \$\(\)_{\sqrt{a}} \text{ Light} 2 \$\(\)_{\sqrt{a}} \text{ Light} \$\(\)_{\sqrt{a}} \text{ Light} 3 \$\(\	17	5/16" Flat washer	*	2	42	'/4"-20 Hex nut	*	2
Bracket 04029.00 2 44 #10 Serrated washer 1/4-20 x 1/² Knob 25816.00 2 45 1/²-12 Hex nut (RH thread) Upper eyeshield bracket (left) 00284.01 1 A Recommended Accessories Upper eyeshield bracket (right) 00282.01 1 A Cast iron tool stand Eyeshield kit 25817.00 1 A Wheel dresser 3/s-16 x 1/² Knob 25817.00 2 Lighted eyeshield Wheel guard 24465.09 2 Lighted eyeshield Grooved Tool Rest(Right) 9625825.01 1 A	18	5/16"-18 Hex nut	*	2	43	Capacitor	16908.00	-
1/4-20 x ½" Knob 25816.00 2 45 ½"-12 Hex nut (RH thread) Upper eyeshield bracket (left) 00284.01 1 A Recommended Accessories Upper eyeshield bracket (right) 00282.01 1 A Cast iron tool stand Eyeshield kit 9632291.00 1 A Wheel dresser 3/s-16 x ½" Knob 25817.00 2 Lighted eyeshield Wheel guard 24465.09 2 Lighted eyeshield Grooved Tool Rest(Right) 9625825.01 1 1	19	Bracket	04029.00	2	44	#10 Serrated washer	*	3
Upper eyeshield bracket (left) 00284.01 1 Recommended Accessories Upper eyeshield bracket (right) 00282.01 1 ∆ Cast iron tool stand Eyeshield kit 25817.00 1 ∆ Wheel dresser 3/8-16 x ½" Knob 2 ∆ Lighted eyeshield Wheel guard 24465.09 2 ∆ Lighted eyeshield Grooved Tool Rest(Right) 9625825.01 1 1 1	20	$1/4-20 \times 1/2$ " Knob	25816.00	2	45	$\frac{1}{2}$ "-12 Hex nut (RH thread)	00548.00	_
Upper eyeshield bracket (right) 00282.01 1 ∆ Cast iron tool stand Eyeshield kit 9632291.00 1 ∆ Wheel dresser 3/8-16 x ¹/₂" Knob 2 ∆ Lighted eyeshield Wheel guard 24465.09 2 ∆ Lighted eyeshield Grooved Tool Rest(Right) 9625825.01 1 1 1	21	Upper eyeshield bracket (left)	00284.01	-		Recommended Accessories		
Eyeshield kit 9632291.00 1 Δ Wheel dresser $3/s$ -16 x $1/z$ " Knob 25817.00 2 Δ Lighted eyeshield Wheel guard 24465.09 2 Grooved Tool Rest(Right) 9625825.01 1	22	Upper eyeshield bracket (right)	00282.01	-	Δ	Cast iron tool stand	70101	—
$^{3/8}$ -16 x 1 //// Knob 25817.00 2 $^{\triangle}$ Lighted eyeshield 24465.09 2 $^{\triangle}$ Grooved Tool Rest(Right) 9625825.01 1	23	Eyeshield kit	9632291.00	-	∇	Wheel dresser	82901	-
Wheel guard Grooved Tool Rest(Right)	24	³ / ₈ -16 x ¹ / ₂ " Knob	25817.00	2	∇	Lighted eyeshield	82903	-
Grooved Tool Rest(Right)	25	Wheel guard	24465.09	2				3*
	16-1	Grooved Tool Rest(Right)	9625825.01	~				

 [△] Not Shown.
 * Standard hardware item available locally.
 † Not available as a repair part.

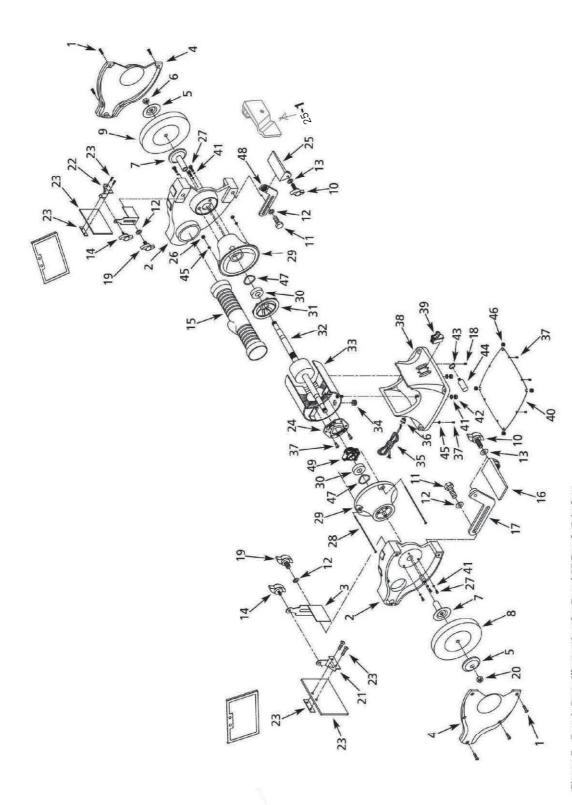


Figure 5 - Repair Parts Illustration for 7 and 8" Bench Grinders

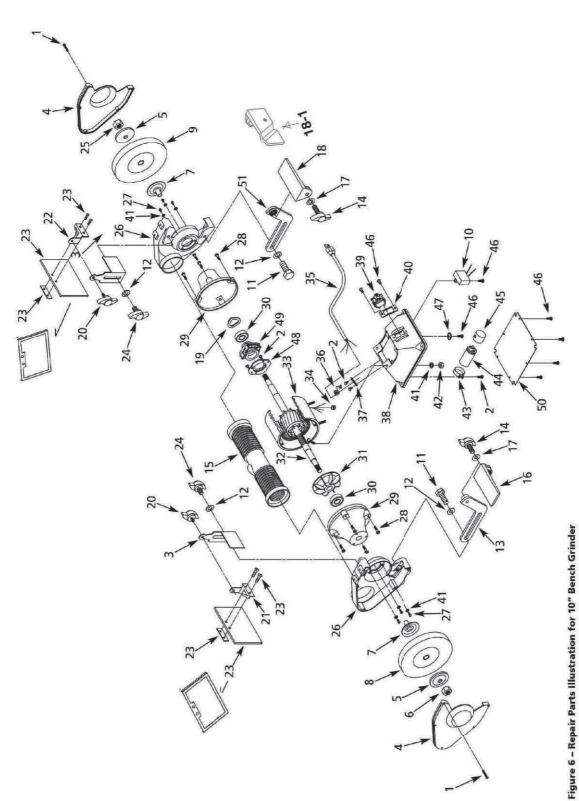
Q. 4 16654.00 16627.02 00.68600 22041.00 01066.00 0006000 04055.00 03210.00 24500.00 16655.00 16646.00 23991.00 16640.00 31448.00 24499.02 08066.01 25172.00 25139.29 82903 70101 82901 REPLACEMENT PARTS LIST FOR 7" AND 8" BENCH GRINDER Recommended Accessories 5-0.8 x 228mm Flange screw #10-24 x 1/4" Flange screw #10-24 x 1/4" Flange screw #10 Serrated washer Stator with housing Cast iron tool stand Centrifugal switch Operators manual Lighted eyeshield Capacitor clamp Bearing 6204ZZ Switch with key 1/4" Lock washer /4"-20 Hex nut Bracket (right) Wheel dresser Base bumper Wavy washer Description Strain relief Base cover Endshield Motor fan Grommet Armature Line cord Capacitor 4 A 32 33 35 37 38 39 40 4 42 46 47 Qty. 10 10 9608070.03 9602042.00 9633291.00 9625825.01 24497.00 00.88000 24498.00 02038.00 25812.00 25816.00 25813.00 31447.00 00087.00 25177.00 25788.00 25171.00 25825.00 26056.00 25815.00 24496.02 03207.00 25817.00 Grinding wheel (36 coarse grit) Upper eyeshield bracket (right) Upper eyeshield bracket (left) Grinding wheel (120 Fine grit) #10-24 x 1/2" Pan head screw #10-24 x 7/8" Pan head screw 5/8"-11 Hex nut (RH thread) 5/8"-11 Hex nut (LH thread) #10-24 x 3/8" Flange screw 3/8-16 x 3/4" Hex head bolt $\frac{1}{4}$ -20 x $\frac{1}{2}$ " Hex head bolt Grooved Tool Rest(Right) Spark guard (set of 2) Dust collector hose Wheel guard cover Inner wheel flange 5-0.8 mm Hex nut Stationary switch 1/4-20 x 3/8" Knob 3/8-16 x 1/2" Knob 5/16-18 x 1" Knob 5/16" Flat washer 3/8" Flat washer Tool rest (right) Fool rest (left) Wheel guard **Eyeshield kit** Description Bracket (left) A Not Shown. Flange 4 9 10 15 20 24

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Standard hardware item available locally.

† Not available as a repair part.

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		REPLACEMENT PAR	TS LIST	FOR	NT PARTS LIST FOR 10" BENCH GRINDER		
Ref. No.	Description	Part Number	Qty.	Ref. No.	Description	Part Number	Ą
-	¹/₄-20 x ³/₄" Pan head screw	*	10	29	Endshield	16913.02	2
2	#10-24 x 3/8" Flange screw	03207.00	æ	30	Bearing 6206ZZ	00297.00	2
m	Spark guard (Set of 2)	25815.00	-	31	Motor fan	01639.00	•
4	Wheel guard cover	16911.02	7	32	Armature	+	-
5	Flange	24480.00	2	33	Stator with housing	+	
9	1"-8 Hex nut (LH thread)	00111.00	-	34	Grommet	16916.00	2
7	Inner wheel flange	24481.00	7	35	Line cord	0006000	-
00	Grinding wheel (36 coarse grit)	02040.00	-	36	Strain relief	01601.00	-
6	Grinding wheel (120 Fine grit)	9602043.00	-	37	Strain relief plate	08172.00	-
10	Capacitor	16895.00	-	38	Base	16917.02	
=	³ / ₈ -16 x ³ / ₄ " Hex head bolt	*	2	39	Switch with key	08066.01	-
12	3/8" Flat washer	*	4	40	Switch plate	08173.00	-
13	Bracket (left)	26290.00	-	41	5/16" Lock washer	*	10
14	⁵ / _{1e} -18 x 1" Knob	25812.00	2	42	⁵ / ₁₆ "-18 Hex nut	*	4
15	Dust collector hose	9608070.03	1	43	Capacitor clamp	16918.00	
16	Tool rest (left)	25813.00	-	44	Capacitor	08174.00	-
17	5/4" Flat washer	*	2	45	Capacitor cap	01638.00	2
18	Tool rest (right)	25825.00	-	46	#10-24 x 1/2" Flange screw	03210.00	10
19	Wavy washer	16620.00		47	#10 Serrated washer	*	-
20	1/4-20 x 3/8" Knob	25816.00	2	48	Stationary switch	08175.00	-
21	Upper eyeshield bracket (left)	25177.00	-	49	Rotating switch	00599.00	-
22	Upper eyeshield bracket (right)	25188.00	-	50	Base cover	16919.00	
23	Eyeshield kit	9632291.00	-	51	Bracket (right)	26291.00	-
24	³ / ₈ -16 x ¹ / ₂ " Knob	25817.00	2		Recommended Accessories		
25	1"-8 Hex nut (RH thread)	00110.00	-	٧	Cast iron tool stand	70101	-
56	Wheel guard	26057.00	2	Δ	Wheel dresser	82901	-
27	5/16-18 x 5/8" Hex head bolt	*	9	٧	Lighted eyeshield	82903	-
28 18-1	1/4-20 x 2" Flange screw Grooved Tool Rest(Right)	03209.00	8	∇	Multi-purpose stand	70102	-
\ \ \ \	△ Not Shown.						

^{*} Standard hardware item available locally.

WARRANTY

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 parts (i.e. v-belts, coated screws, abrasives), 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 one year parts and labor, unless otherwise noted below beginning from the date of delivery to the original user. The Palmgren products carry the following warranties on parts with a 1 year warranty on labor:

- USA Machine vises Lifetime
- IQ Machine vises Lifetime
- · Bench vises Lifetime
- · Positioning tables Lifetime
- Bench grinders & buffers 3 years
- Tapping machines 2 years
- · Drilling machines 2 years
- Finishing machines 2 years
- Band saws 2 years
- Work stands 2 years
- Arbor presses 2 years
- Metal framing equipment 2 years
- Accessories 1 year

The obligation of 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 deficient. 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 Palmgren for any deficiency in its products. Under no circumstances is Palmgren liable for any direct, indirect, incidental, special or consequential damages including lost 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.

SERVICE & REPAIR

- 1. If a Palmgren product requires a repair or warranty service **DO NOT** return the product to the place of purchase.
- 2. All warranty related work must be evaluated and approved by Palmgren.
- 3. Prior to returning any item the user must obtain factory approval and a valid RGA number.
- 4. For instructions and RGA number call toll free (800) 621-6145.

