

# *Grizzly* *Industrial, Inc.*®

## **CEMENT MIXER MODEL H5697 INSTRUCTION MANUAL**



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#5904 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.

# WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains 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, 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, such as those dust masks that are specially designed to filter out microscopic particles.

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# SECTION 1: SAFETY

## **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**

- KEEP GUARDS IN PLACE** and in working order.
- REMOVE ADJUSTING KEYS AND WRENCHES.** Form a habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
- KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- DO NOT USE IN DANGEROUS ENVIRONMENT.** DO NOT use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.
- KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept at a safe distance from work area.
- MAKE WORKSHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
- DO NOT FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- USE RIGHT TOOL.** DO NOT 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	16	16	16
7-10	16	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 is safer than using your hand and frees both hands to operate tool.
13. **DO NOT 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. **USE RECOMMENDED ACCESSORIES.** Consult the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury.
16. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** On machines with magnetic contact starting switches there is a risk of starting if the machine is bumped or jarred. Always disconnect from power source before adjusting or servicing. Make sure switch is in OFF position before reconnecting.
17. **MANY WOODWORKING TOOLS CAN “KICKBACK” THE WORKPIECE** toward the operator if not handled properly. Know what conditions can create “kickback” and know how to avoid them. Read the manual accompanying the machine thoroughly.
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.** DO NOT leave tool until it comes to a complete stop.
20. **NEVER OPERATE A MACHINE WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.** Full mental alertness is required at all times when running a machine.
21. **NEVER ALLOW UNSUPERVISED OR UNTRAINED PERSONNEL TO OPERATE THE MACHINE.** Make sure any instructions you give in regards to the operation of the machine are approved, correct, safe, and clearly understood.

## **WARNING**

### **Additional Safety for Cement Mixers**

- 1. NEVER ALLOW CHILDREN TO PLAY ON OR IN THE CEMENT MIXER.**
- 2. STORE THE CEMENT MIXER WITH THE DRUM IN THE DOWN POSITION.** This will help prevent children from climbing inside.
- 3. IF MIXER CANNOT BE STORED IN A LOCKED BUILDING, ALWAYS REMOVE THE SWITCH KEY WHEN UNATTENDED.**
- 4. KEEP LOOSE CLOTHING AND LONG HAIR AWAY FROM MOVING EQUIPMENT.**
- 5. ALL CLEANING, ADJUSTMENTS, AND MAINTENANCE MUST BE DONE WITH THE POWER OFF** and the plug pulled from the outlet. Always wait for all moving parts to come to a complete stop.
- 6. DO NOT ALLOW WATER TO GET ON SWITCH OR MOTOR WHEN CLEANING.** If this does happen, allow these components to completely dry before connecting the mixer to the power supply.
- 7. IF AT ANY TIME YOU ARE EXPERIENCING DIFFICULTIES PERFORMING THE INTENDED OPERATION, STOP USING THE MACHINE!** Then contact our service department or ask a qualified expert how the operation should be performed.
- 8. BE AWARE THAT CEMENT, MORTAR, GROUT, AND ALL SILICATE DUSTS PRESENT A SERIOUS RESPIRATORY HAZARD WHEN THEY ARE AIRBORNE.** Protect yourself by always wearing a respirator approved to guard against these kinds of dusts.

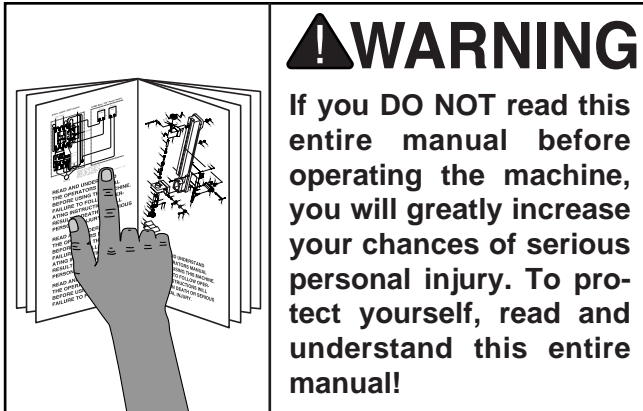
## **CAUTION**

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: GENERAL INFORMATION

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## Commentary

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Grizzly Industrial, Inc. is proud to offer the Model H5697 Cement Mixer. This machine is part of Grizzly's growing family of fine machinery. When used according to the guidelines stated in this manual, you can expect years of trouble-free, enjoyable operation.

We are also pleased to provide this manual with the Model H5697. It was written to guide you through assembly, review safety considerations, and cover general operating procedures. It represents our latest effort to produce the best documentation possible.

If you have any comments or criticisms that you feel we should address in our next printing, please write to us at:

Grizzly Industrial, Inc.  
% Technical Documentation  
P.O. Box 2069  
Bellingham, WA 98227

Most important, we stand behind our machines. We have excellent regional service departments at your disposal should the need arise.

If you have any service questions or parts requests, please call or write to 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 H5697 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. For your convenience, we always keep current Grizzly manuals available on our website at [www.grizzly.com](http://www.grizzly.com). Any updates to your machine will be reflected in these manuals as soon as they are complete.



# SECTION 3: CIRCUIT REQUIREMENTS

## 110V Operation

### **⚠️ WARNING**

**Serious personal injury could occur if you connect the machine to the power source before you have completed the set up process. DO NOT connect the machine to the power source until instructed to do so.**

### **Amperage Draw**

The ½ HP motor on the Model H5697 will draw the following amps:

110V Motor Draw .....4 Amps

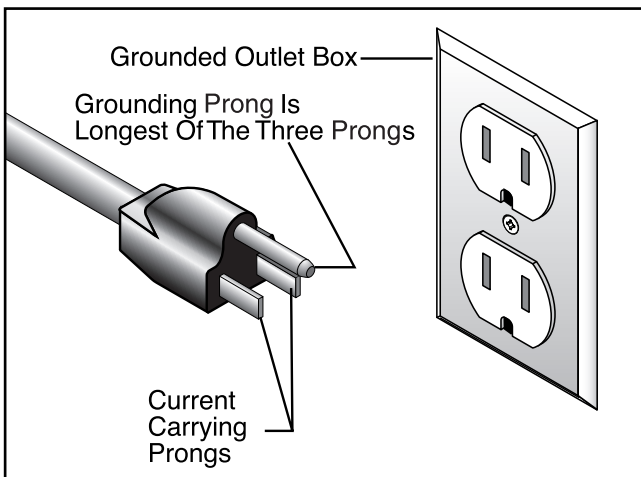
### **Circuit Breaker Requirements**

Install your machine on a dedicated circuit to reduce the possibility of tripping the circuit breaker. If the circuit breaker frequently trips, have the circuit inspected by a qualified electrician. Never use a larger circuit breaker than stated below, or you will increase the risk of fire.

Circuit Breaker .....10 Amp, 1 Pole

### **Plug Type**

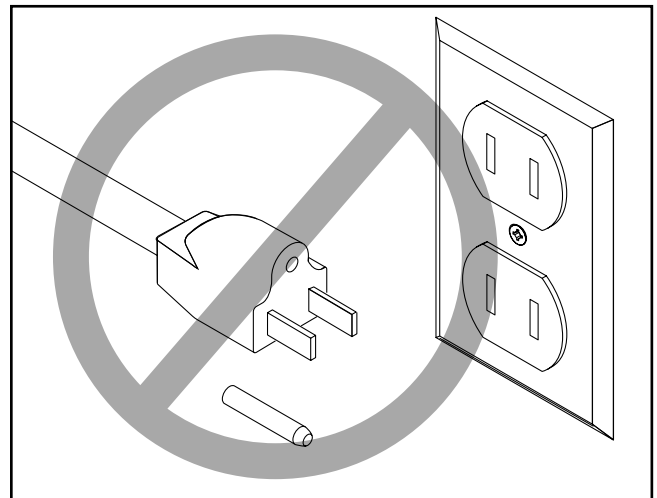
The Model H5697 is supplied with a 5-15 plug, similar to **Figure 1**.



**Figure 1.** Typical type 5-15 plug and receptacle.

### **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 that has a plug with an equipment-grounding prong. The outlet must be properly installed and grounded in accordance with all local codes and ordinances.



### **⚠️ CAUTION**

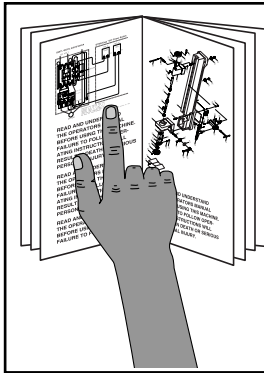
**This machine must have a ground prong in the plug to help ensure that it is grounded. DO NOT remove ground prong from plug to fit into a two-pronged outlet! If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.**

### **Extension Cords**

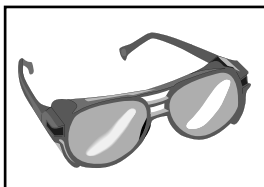
- Make sure the cord is rated Standard Service (grade S) or better.
- The extension cord must also contain a ground wire and plug pin.
- Use at least a 16 gauge cord.
- DO NOT use a cord longer than 50 feet!



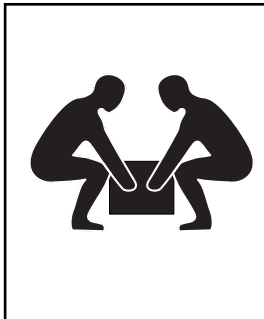
# SECTION 4: SET UP



**!WARNING**  
 This machine presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations **BEFORE** starting the machine!



**!WARNING**  
 Wear safety glasses during the entire set up process!



**!WARNING**  
 The Model H5697 is a heavy machine (106 lbs. shipping weight). **DO NOT** over-exert yourself while unpacking or moving your machine—get assistance.

## Unpacking

Your machine left our warehouse in a carefully packed crate or box. If you discover the machine is damaged after you have signed for delivery, please immediately call Customer Service at (570) 546-9663 for advice.

Save the containers and all packing materials for possible inspection by the carrier or its agent. Otherwise, filing a freight claim can be difficult.

When you are completely satisfied with the condition of the shipment, you should inventory the equipment.



## Inventory

After all the parts have been removed from the carton, you should have:

### Stand Pieces (Figure 2)

A.	Slide Braces .....	2
B.	Cross Braces .....	2
C.	Left Front Leg.....	1
D.	Right Front Leg .....	1
E.	Left Rear Leg .....	1
F.	Right Rear Leg.....	1
G.	Corner Braces .....	4
H.	Hardware Bag (see list below).....	1

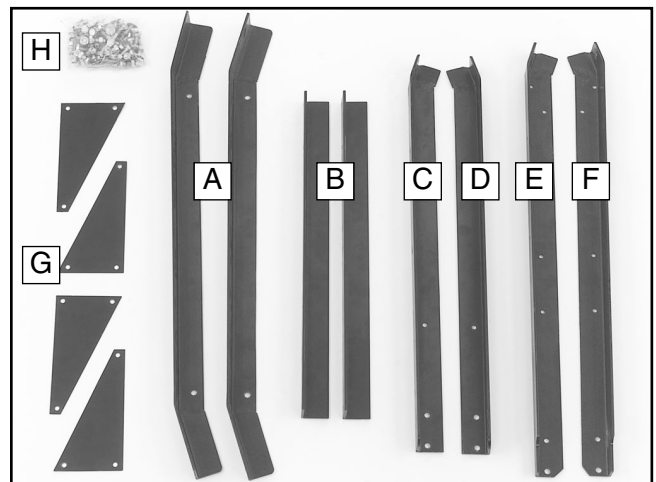


Figure 2. Stand Pieces.

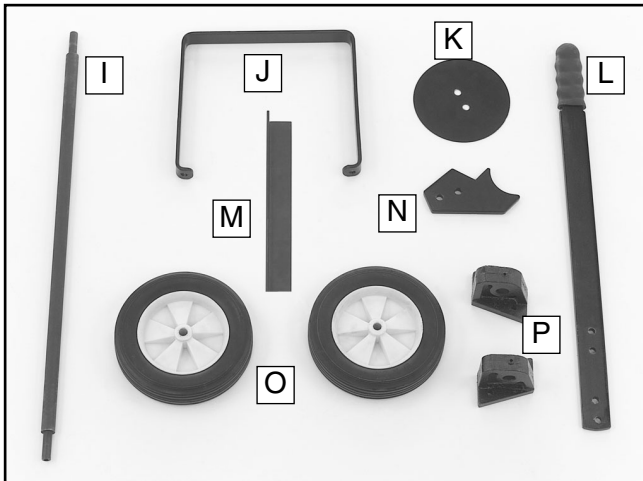
### Hardware Bag Inventory (use page 9 to identify hardware)

•	Hex Bolt M10-1.5 x 70 .....	2
•	Hex Bolt M10-1.5 x 30 .....	2
•	Hex Bolt M10-1.5 x 25 .....	4
•	Hex Bolt M10-1.5 x 20 .....	4
•	Carriage Bolt M10-1.5 x 25 .....	4
•	Ext Tooth Washer 10mm .....	16
•	Hex Nut M10-1.5 .....	16
•	Hex Bolt M8-1.25 x 25 .....	8
•	Hex Bolt M8-1.25 x 20 .....	10
•	Hex Bolt M8-1.25 x 16 .....	8

- Set Screw M8-1.25 x 16 .....2
- Set Screw M8-1.25 x 8 .....3
- Flat Washer 8mm.....2
- Ext Tooth Washer 8mm .....26
- Hex Nut M8-1.25 .....24
- Hex Bolt M6-1 x 20 .....4
- Phlp Hd Screw M6-1 x 20 .....4
- Flat Washer 6mm.....4
- Phlp Hd Screw M5-.8 x 16.....2
- Phlp Hd Screw M5-.8 x 10.....4
- Flat Hd Screw M5-.8 x 16 .....6
- Spanner Nut M24-1.5.....2

**Wheels, Axle, and Handle Pieces (Figure 3)**

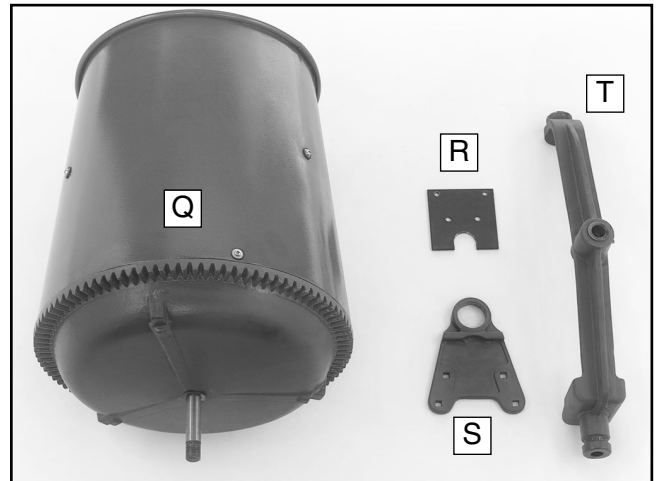
- I. Axle .....1
- J. Handle .....1
- K. Lever Safety Guard .....1
- L. Dump Lever .....1
- M. Handle Brace .....1
- N. Stop Plate .....1
- O. Wheels .....2
- P. Axle Braces .....2



**Figure 3.** Wheels, axle, and handle pieces.

**Drum Assembly & Dumping Pieces (Figure 4)**

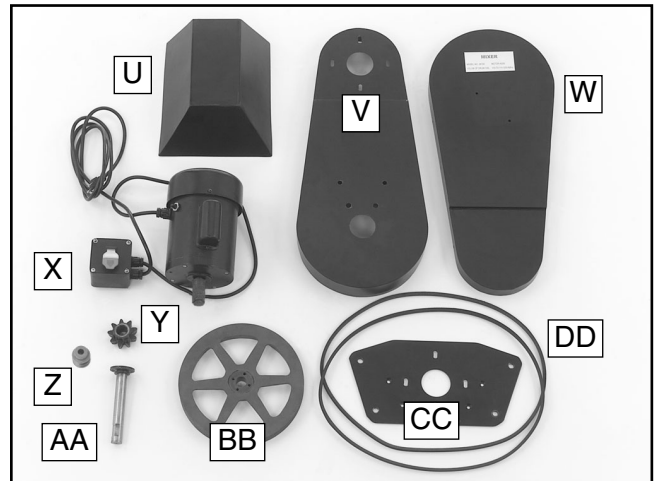
- Q. Drum Assembly .....1
- R. Driving End Plate.....1
- S. Yoke Support.....1
- T. Yoke.....1



**Figure 4.** Drum assembly & dumping pieces.

**Motor & Pulley Components (Figure 5)**

- U. Splash Guard.....1
- V. Rear Cover .....1
- W. Front Cover .....1
- X. Motor and Switch Assembly .....1
- Y. Pinion Gear .....1
- Z. Motor Pulley.....1
- AA. Upper Pulley Shaft w/Bushing .....1
- BB. Upper Pulley .....1
- CC. Motor Mount.....1
- DD. V-Belts .....2
- EE. Safety Guard (not shown) .....1



**Figure 5.** Motor & pulley components.

In the event that any nonproprietary parts are missing (e.g. a nut or a washer), we would be glad to replace them, or, for the sake of expediency, replacements can be obtained at your local hardware store.

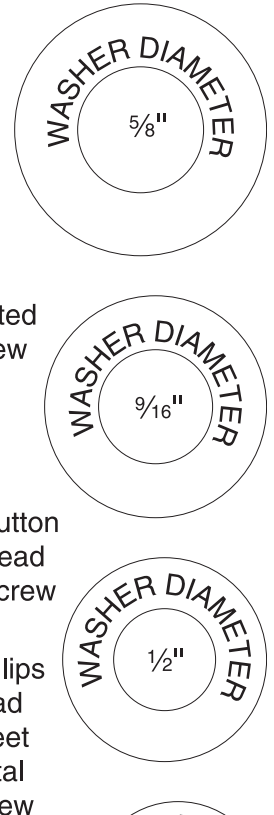
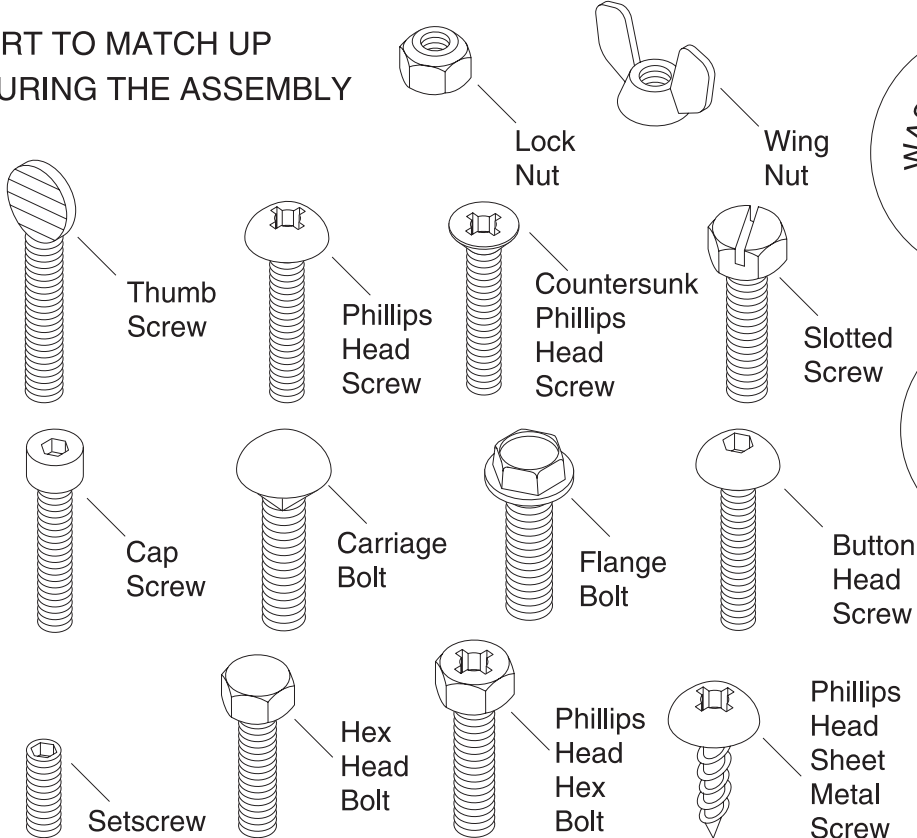


# Hardware Recognition Chart

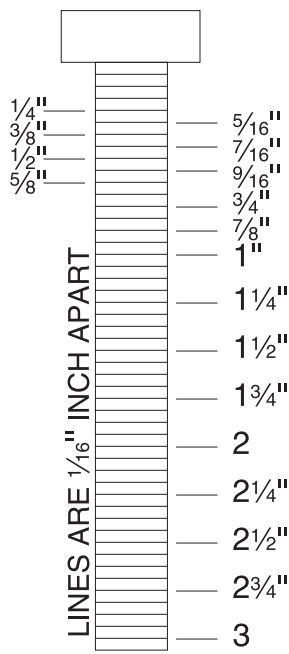
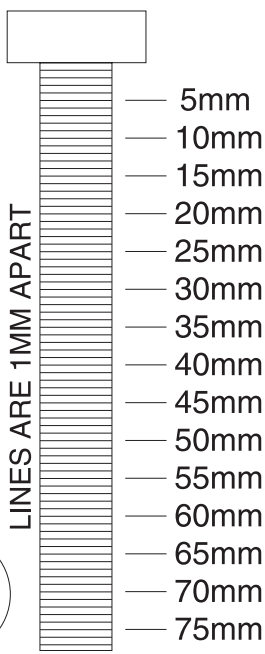
USE THIS CHART TO MATCH UP HARDWARE DURING THE ASSEMBLY PROCESS!

MEASURE BOLT DIAMETER BY PLACING INSIDE CIRCLE

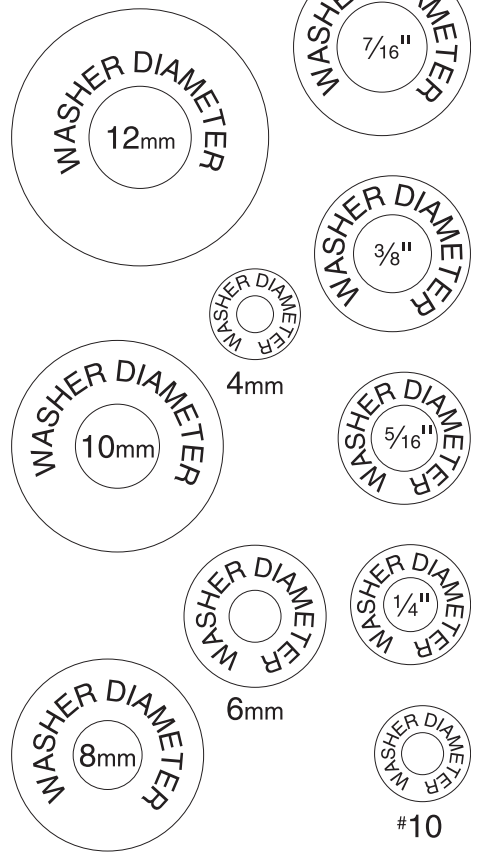
- #10
- 1/4"
- 5/16"
- 3/8"
- 7/16"
- 1/2"
- 5/8"



- 4mm
- 6mm
- 8mm
- 10mm
- 12mm
- 16mm



WASHERS ARE MEASURED BY THE INSIDE DIAMETER



# Stand & Yoke

Components and Hardware Needed	Qty
Slide Braces .....	2
Cross Braces.....	2
Left Front Leg .....	1
Right Front Leg .....	1
Right Rear Leg .....	1
Left Rear Leg .....	1
Corner Braces.....	4
Driving End Plate .....	1
Yoke Support .....	1
Yoke .....	1
Inside Cover .....	1
Hex Bolts M8-1.25 x 20 .....	4
Hex Bolts M8-1.25 x 16 .....	8
Ext Tooth Washers 8mm .....	12
Hex Nuts M8-1.25.....	12
Hex Bolts M10-1.5 x 20 .....	4
Ext Tooth Washers 10mm .....	12
Hex Nuts M10-1.5.....	12
Carriage Bolts M10-1.5 x 25.....	4
Hex Bolts M10-1.5 x 25 .....	4

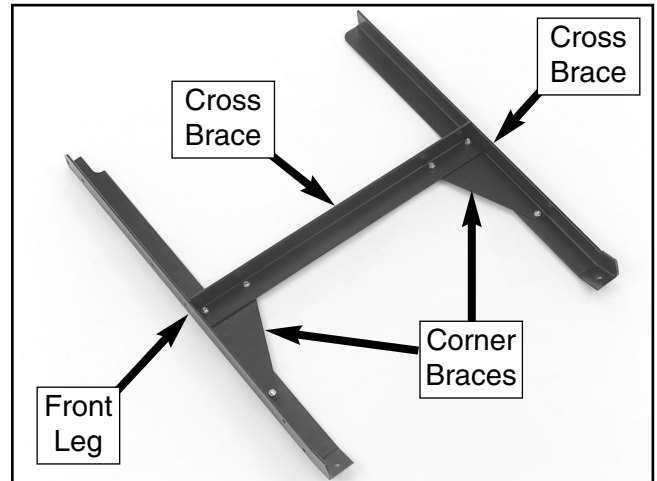
## Tools Needed

Wrenches/Sockets 13mm .....	2
Wrenches/Sockets 16mm .....	2

## To assemble the stand:

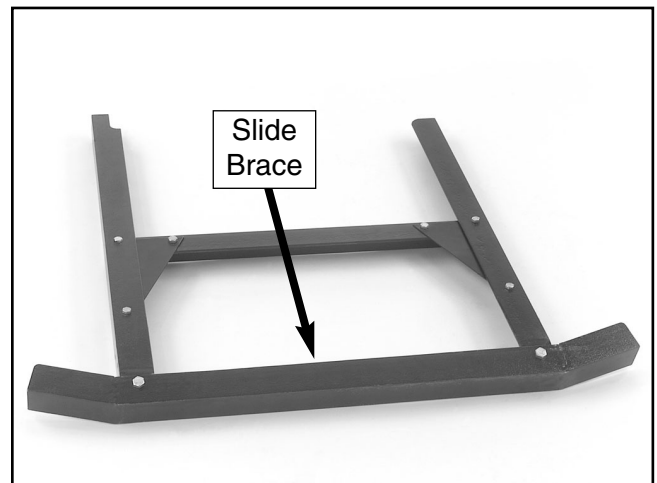
Note—Prevent frustration by **NOT** tightening the stand bolts until the entire stand is assembled.

- Using one of the cross braces, connect the middle of the left front leg and the middle of the left rear leg with (2) M8-1.25 x 20 hex bolts, (2) 8mm exterior tooth washers, and (2) M8-1.25 hex nuts.
- Secure one corner brace on each side of the assembly with (4) M8-1.25 x 16 hex bolts, (4) 8mm exterior tooth washers, and (4) M8-1.25 hex nuts (see **Figure 6**).
- Repeat **steps 1 & 2** with the right legs, so that the assembly mirrors the left stand assembly shown in **Figure 6**.



**Figure 6.** Left side stand assembly.

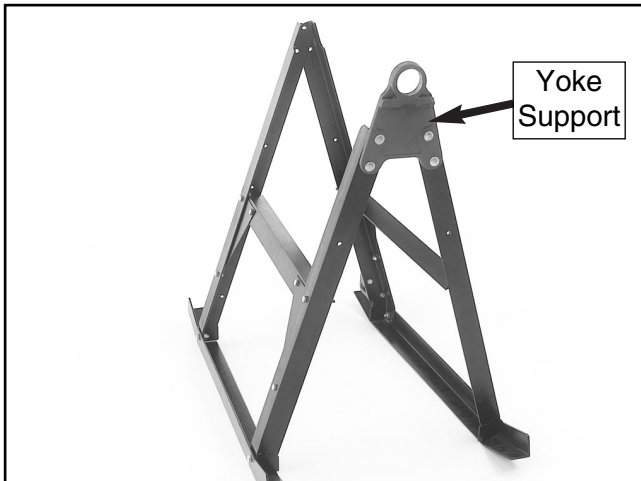
- Attach the slide braces to the bottoms of both stand assemblies with (4) M10-1.5 x 20 hex bolts, (4) 10mm ext tooth washers, and (4) M10-1.5 hex nuts (**Figure 7**).



**Figure 7.** Slide brace attached to stand assembly.

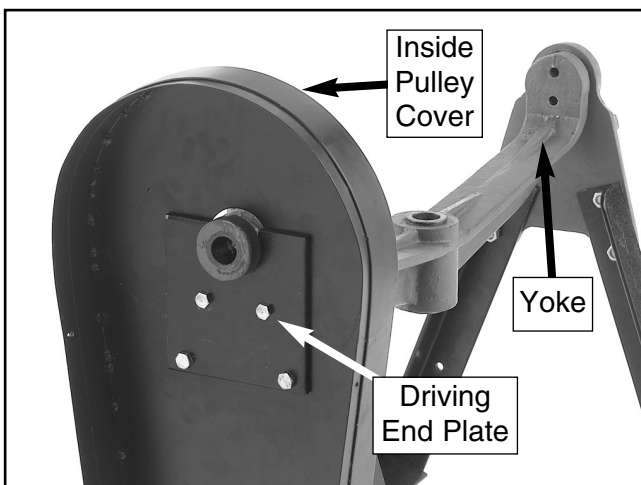
- Using the yoke support, connect the front legs of the two stand assemblies together with (4) M10-1.5 x 25 carriage bolts, (4) 10mm ext tooth washers, and (4) M10-1.5 hex nuts (see **Figure 8** on the next page).

# Drive System



**Figure 8.** Yoke support connecting left and right side stand assemblies.

6. Insert the front end of the yoke into the yoke support and rest the rear end of the yoke on top of the stand legs. Note—*The front end of the yoke is the end WITHOUT the groove.*
7. Fit the inside cover over the rear end of the yoke and slide the driving end plate into the groove in the rear end of the yoke. Hold or have your assistant hold the driving end plate in position, and secure the driving end plate and inside cover to the stand with (4) M10-1.5 x 25 hex bolts, (4) 10mm ext tooth washers, and (4) M10-1.5 hex nuts (**Figure 9**).



**Figure 9.** Driving end plate and inside cover installed and supporting rear end of yoke.

8. Tighten all of the stand bolts that you left loose during assembly.



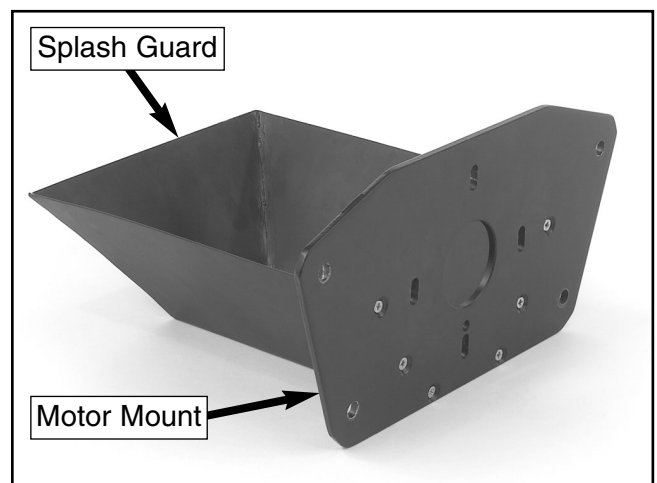
Components and Hardware Needed	Qty
Splash Guard .....	1
Motor Mount .....	1
Motor Pulley .....	1
Motor .....	1
Upper Pulley Shaft w/Bushing .....	1
Upper Pulley .....	1
V-Belts.....	2
Outside Pulley Cover .....	1
Pinion Gear .....	1
Flat Head Screws M5-.8 x 16 .....	6
Hex Bolts M8-1.25 x 20 .....	4
Exterior Tooth Washers 8mm .....	4
Hex Nuts M8-1.25 .....	4
Hex Bolts M6-1 x 20 .....	4
Flat Washers 6mm .....	4
Set Screw M8-1.25 x 8 .....	1
Phillips Head Screws M6-1 x 20 .....	4
Phillips Head Screws M5-.8 x 10 .....	4
Set Screws M8-1.25 x 8 .....	2

**Tools Needed:**

Phillips Screwdriver.....	1
Wrenches/Socket 13mm .....	2
Wrench/Socket 10mm .....	1
Allen Wrench 4mm .....	1

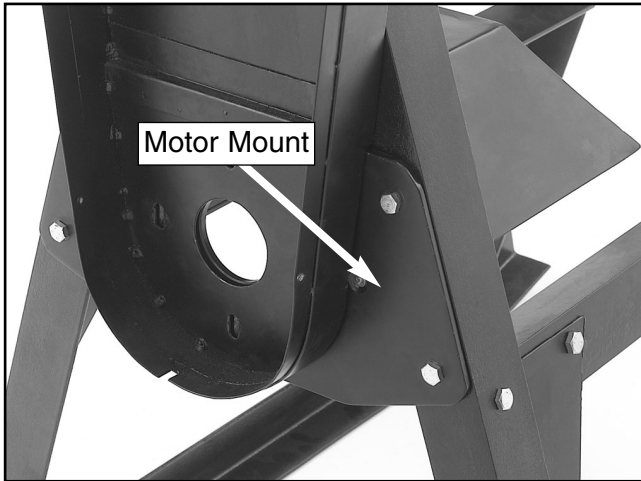
**To assemble the drive system:**

1. Attach the splash guard to the motor mount with the (6) M8-1.25 x 20 flat head screws (**Figure 10**).



**Figure 10.** Splash guard attached to motor mount.

- Slide the motor mount between the inside cover and stand legs, and attach it to the stand with the (4) M8-1.25 x 20 hex bolts, (4) 8mm exterior tooth washers, and (4) M8-1.25 hex nuts (**Figure 11**).



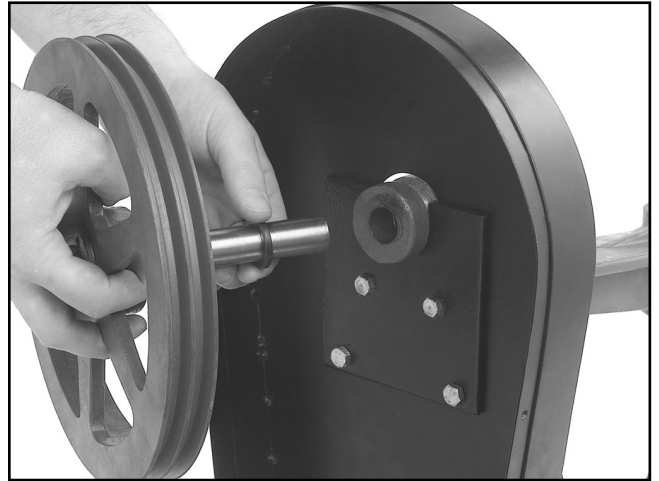
**Figure 11.** Motor mount attached to stand.

- Install the motor pulley on the motor shaft. Thread in the M8-1.25 x 8 set screw enough to keep the motor pulley in place, but do not fully tighten it at this time.
- Install the motor by attaching it to the motor mount with the (4) M6-1 x 20 hex bolts and (4) 6mm flat washers (**Figure 12**). Note—*DO NOT fully tighten these bolts at this time.*



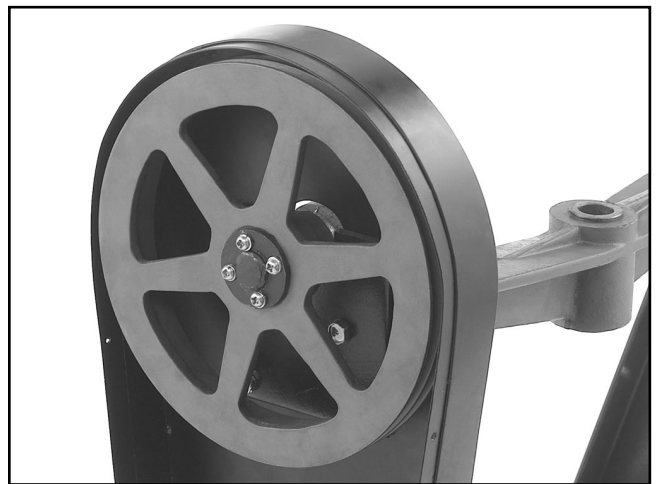
**Figure 12.** Motor installed and properly attached to motor mount.

- Remove the bushing from the upper pulley shaft, insert the upper pulley shaft into the upper pulley, and place the the bushing back onto the upper pulley shaft.
- Insert the shaft into the yoke as shown in **Figure 13**.



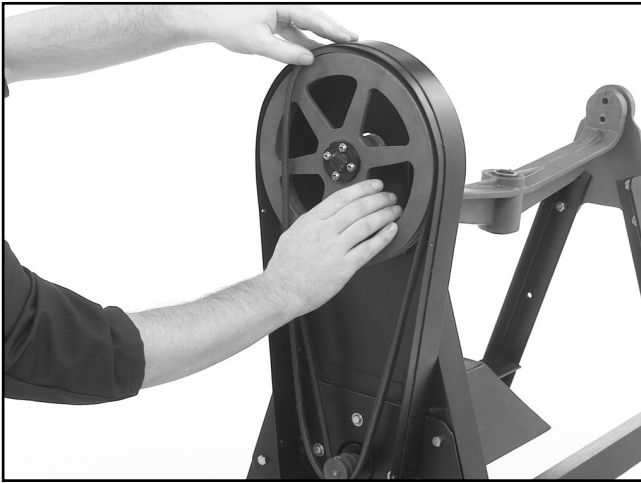
**Figure 13.** Installing upper pulley into yoke.

- Secure the upper pulley shaft to the upper pulley with the (4) M6-1 x 20 Phillips head screws (**Figure 14**).



**Figure 14.** Upper pulley installed and properly secured to upper pulley shaft.

8. Align the motor and upper pulleys by loosening the motor pulley set screw, move the motor pulley in or out until it is aligned with the upper pulley, then fully tighten the motor pulley set screw.
9. Install the V-belts one at a time by first placing them into the outside motor pulley groove, then rolling them into the upper pulley grooves, as shown in **Figure 15**.



**Figure 15.** Installing V-belts.

10. Pull the motor down to slightly tension the V-belts and tighten the (4) hex bolts that secure the motor to the motor mount.
11. Attach the switch box to the outside pulley cover, as shown in **Figure 16**, with the (2) long Phillips head screws, washers and nuts that are already installed on the switch box.



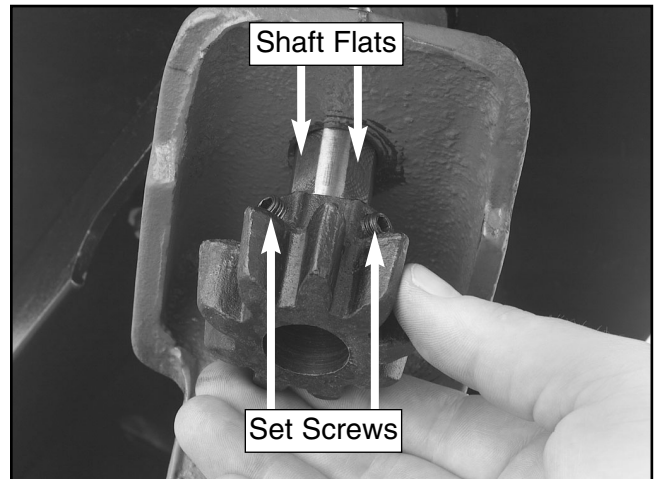
**Figure 16.** Attaching switch box to the outside pulley with the existing screws in the switch box.

12. Place the outside pulley cover over the inside cover and secure it in place with the (4) M5-.8 x 10 Phillips head screws, as shown in **Figure 17**.



**Figure 17.** Securing outside pulley cover to inside pulley cover.

13. Insert the pinion gear onto the end of the upper pulley shaft, so that the (2) M8-1.25 x 8 set screws are directly over the two flats on the shaft, as shown in **Figure 18**.



**Figure 18.** Installing pinion gear so the setscrews are directly over the flats on the shaft.

14. When the outside edge of the pinion gear is flush with the end of the upper pulley shaft, tighten the set screws.



# Wheels

Components and Hardware Needed	Qty
Axle .....	1
Axle Braces .....	2
Wheels .....	2
Hex Bolts M8-1.25 x 25 .....	4
Exterior Tooth Washers 8mm .....	6
Hex Nuts M8-1.25 .....	4
Set Screws M8-1.25 x 16 .....	2
Hex Bolts M8-1.25 x 20 .....	2
Flat Washers 8mm .....	2

### Tools Needed:

Wrenches/Sockets 13mm .....	2
Allen Wrench 4mm .....	1

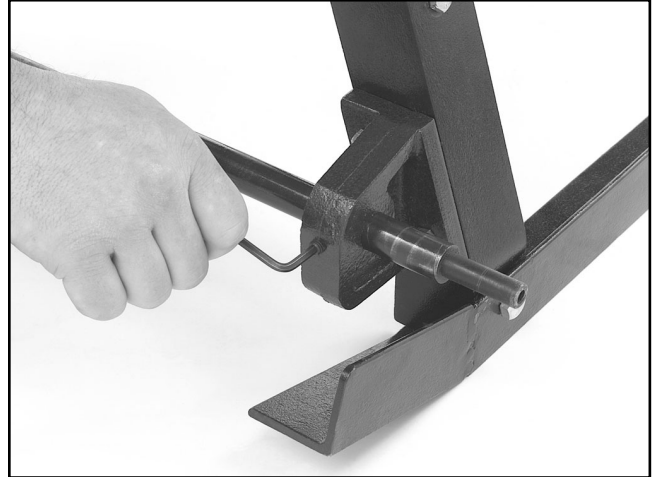
### To install the wheels onto the stand assembly:

1. Attach the axle braces to the rear of the stand assembly with (4) M8-1.25 x 25 hex bolts, (4) 8mm exterior tooth washers, and (4) M8-1.25 hex nuts (**Figure 19**). Note—*DO NOT fully tighten these bolts at this time.*



**Figure 19.** Axle brace mounted to rear of stand assembly.

2. Slide the axle through both axle braces, so that it is evenly centered with the stand.
3. Use one set screw on each axle brace to secure the axle in position, as shown in **Figure 20**.



**Figure 20.** Securing axle to axle brace by tightening setscrew.

4. Tighten the axle brace mounting bolts.
5. Slide each wheel over each end of the axle.
6. Use (2) M8-1.25 x 20 hex bolts, (2) 8mm exterior tooth washers, and (2) 8mm flat washers on the ends of the axles to secure the wheels in place (**Figure 21**).



**Figure 21.** Wheel installed on axle.



# Handle & Dump Lever

<b>Components and Hardware Needed</b>	<b>Qty</b>
Handle.....	1
Handle Brace .....	1
Dump Lever.....	1
Stop Plate .....	1
Lever Safety Guard.....	1
Hex Bolts M8-1.25 x 25 .....	4
Exterior Tooth Washers 8mm .....	4
Hex Nuts M8-1.25.....	4
Hex Bolts M10-1.5 x 30 .....	2
Exterior Tooth Washers 10mm .....	4
Hex Nuts M10-1.5.....	4
Hex Bolts M10-1.5 x 70 .....	2

**Tools Needed:**

Wrench/Socket 13mm .....	2
Wrench/Socket 16mm .....	2

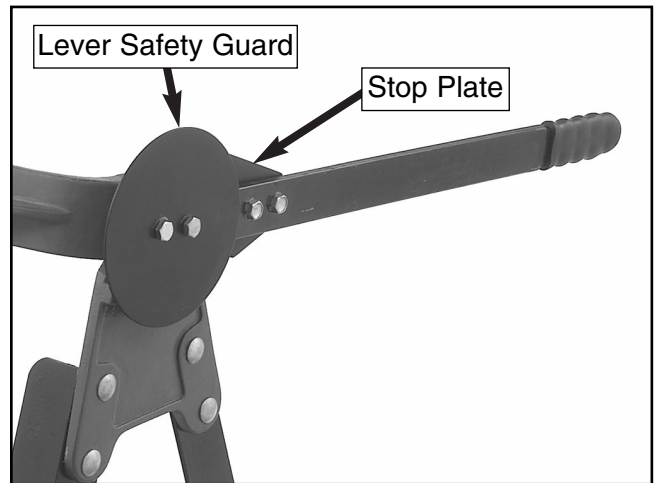
**To install the handle and dump lever:**

1. Attach the handle brace and handle to the front of the stand assembly with (4) M8-1.25 x 25 hex bolts, (4) 8mm exterior tooth washers, and (4) M8-1.25 hex nuts (**Figure 22**).



**Figure 22.** Handle and handle brace installed on front of stand assembly.

2. Install the stop plate on the dump lever so the curved side is facing down, using (2) M10-1.5 x 30 hex bolts, (2) 10mm exterior tooth washers, and (2) M10-1.5 hex nuts.
3. Place the lever safety guard over the two holes at the end of the dump lever and secure the lever to the yoke with (2) M10-1.5 x 70 hex bolts, (2) 10mm exterior tooth washers, and (2) M10-1.5 hex nuts. Your final assembly of the dump lever should look like **Figure 23**.



**Figure 23.** Dump lever, stop plate, and lever safety guard properly installed.



# Drum

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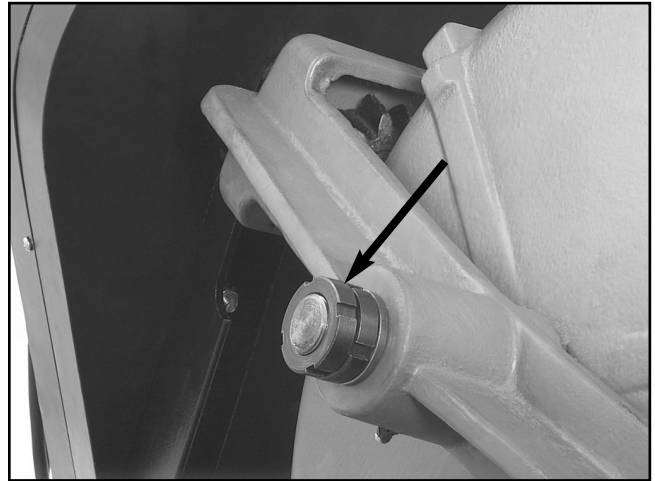
Components and Hardware Needed	Qty
Drum .....	1
Spanner Nuts M24-1.5 .....	2
Pinion Gear Safety Guard.....	1
Phillips Head Screws M5-.8 x 16 .....	2

## Tools Needed:

Phillips Screwdriver.....	1
---------------------------	---

## To install the drum:

1. Insert the drum shaft into the yoke.
2. Thread one of the spanner nuts onto the end of the drum shaft; tighten it all the way down by hand, then loosen it a  $\frac{1}{4}$  turn.
3. Thread on the remaining spanner nut and tighten it against the first spanner nut (**Figure 24**).



**Figure 24.** Spanner nuts securing drum to yoke.

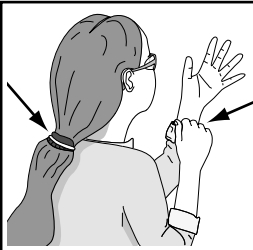
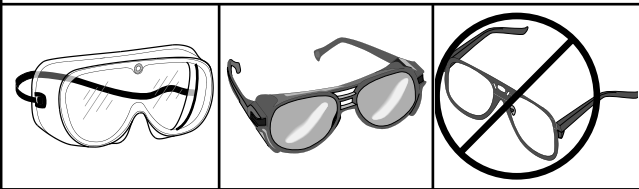
4. Using the Phillips head screws, secure the pinion gear safety guard to the yoke, so that it is directly over the pinion gear.



# SECTION 5: OPERATIONS

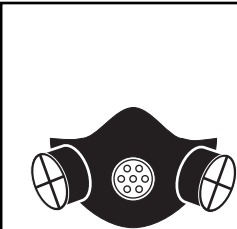
## **⚠️ WARNING**

Operating this equipment creates the potential for flying debris to cause eye injury. Always wear safety glasses 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).



## **⚠️ WARNING**

Keep loose clothing out of the way of machinery and keep hair pulled back during operations.



## **⚠️ CAUTION**

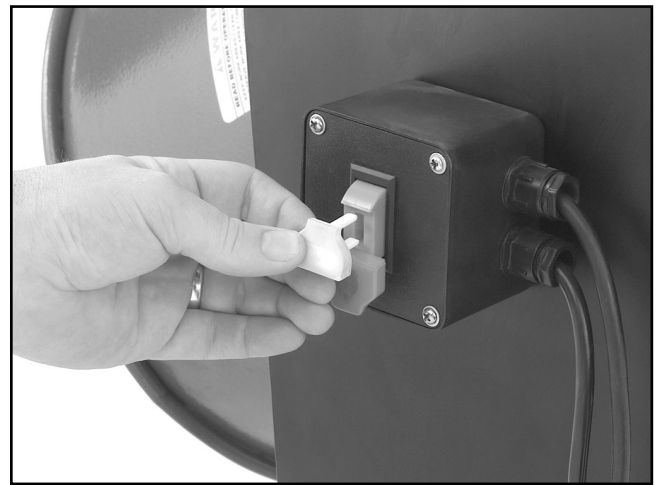
**RESPIRATORY HAZARD!** Fine dust from shoveling or mixing cement, mortar, grout or other silicates may cause lung damage. Always wear an approved respirator.

## Operations

The maximum working capacity of this mixer is 2.5 60lb premix bags or 1.2 cubic feet.

The Model H5697 is operated by a paddle switch. Pull the switch up to start the motor, and push the switch down to stop the motor.

This switch can be locked out by removing the switch key, as shown in **Figure 25**, when the cement mixer is not in use.



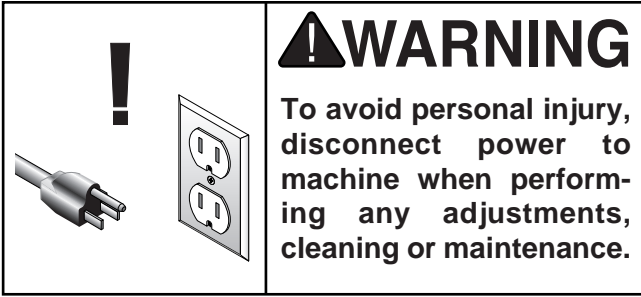
**Figure 25.** Removing ON/OFF switch key to prevent accidental startup.

## **⚠️ CAUTION**

Children can hurt themselves if playing on this mixer. If this machine is not stored in a locked facility, always removed the switch key when leaving it unattended.



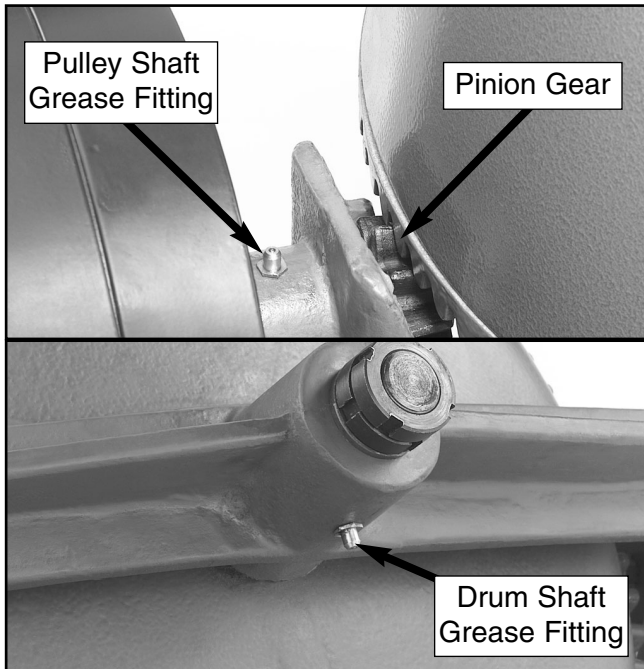
# SECTION 6: MAINTENANCE



## Lubrication

Lubricate your machine with a high-quality multi-purpose grease.

The three main points of lubrication for the cement mixer are the pulley shaft grease fitting, the pinion gear, and the drum shaft grease fitting shown in **Figures 26**. Note—*Apply grease directly to pinion gear.*



**Figure 26.** Lubrication points.

## Cleaning the Mixer

### Cleaning Tips

- Always unplug the cement mixer before cleaning.
- Avoid getting water on the motor or switch while cleaning. If you do, allow the components to thoroughly dry before plugging in the motor.
- The easiest way to clean the cement mixer is by hosing it out with water.
- Always clean the mixing drum immediately after using it. As a general rule, the sooner you clean, the easier it will be.
- For tough to remove buildup, use a stiff bristled brush or a rag to make cleaning easier.
- Small, hardened cement splatters usually can be removed by rubbing with a dry rag.
- Hardened cement can be scraped, chiseled or pounded off with a hammer; however, these actions WILL damage the surface area of the the drum, making it harder to clean in the future.



## V-Belts

Avoid getting grease or oil on the V-belt or pulleys. Check the V-belt, as part of a monthly inspection for proper tension and belt condition. Cracking and glazing could result in belt failure. Replace the belt if such conditions appear.



# SECTION 7: REFERENCE INFO

The following pages contain the machine data sheet, parts breakdown, parts list, and the Warranty/Return information for the Model H5697.

If you need additional technical information relating to this machine, general assistance or replacement parts, please contact the Service Department at the location listed below.

If you have any comments regarding this manual, please write to Grizzly at the address below:

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

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>



**Grizzly**  
Industrial, Inc.®

## MACHINE DATA SHEET

Customer Service #: (570) 546-9663 • To Order Call: (800) 523-4777 • Fax #: (800) 438-5901

### GRIZZLY MODEL H5697 CEMENT MIXER

#### Overall Dimensions:

Height (Barrel Up).....57½"  
Width (Barrel to Side) .....34"  
Length .....37"  
Net Weight .....235 lbs.  
Footprint .....27" x 29"

#### Barrel:

Diameter / Length .....16¾" x 23"  
Working Capacity.....2.5 – 60 lb. Bags of Premix (1.2 Cubic Feet)  
Maximum Capacity (With Drum Facing Up) .....3.2 Cubic Feet  
Mixing RPM .....22 RPM

#### Motor:

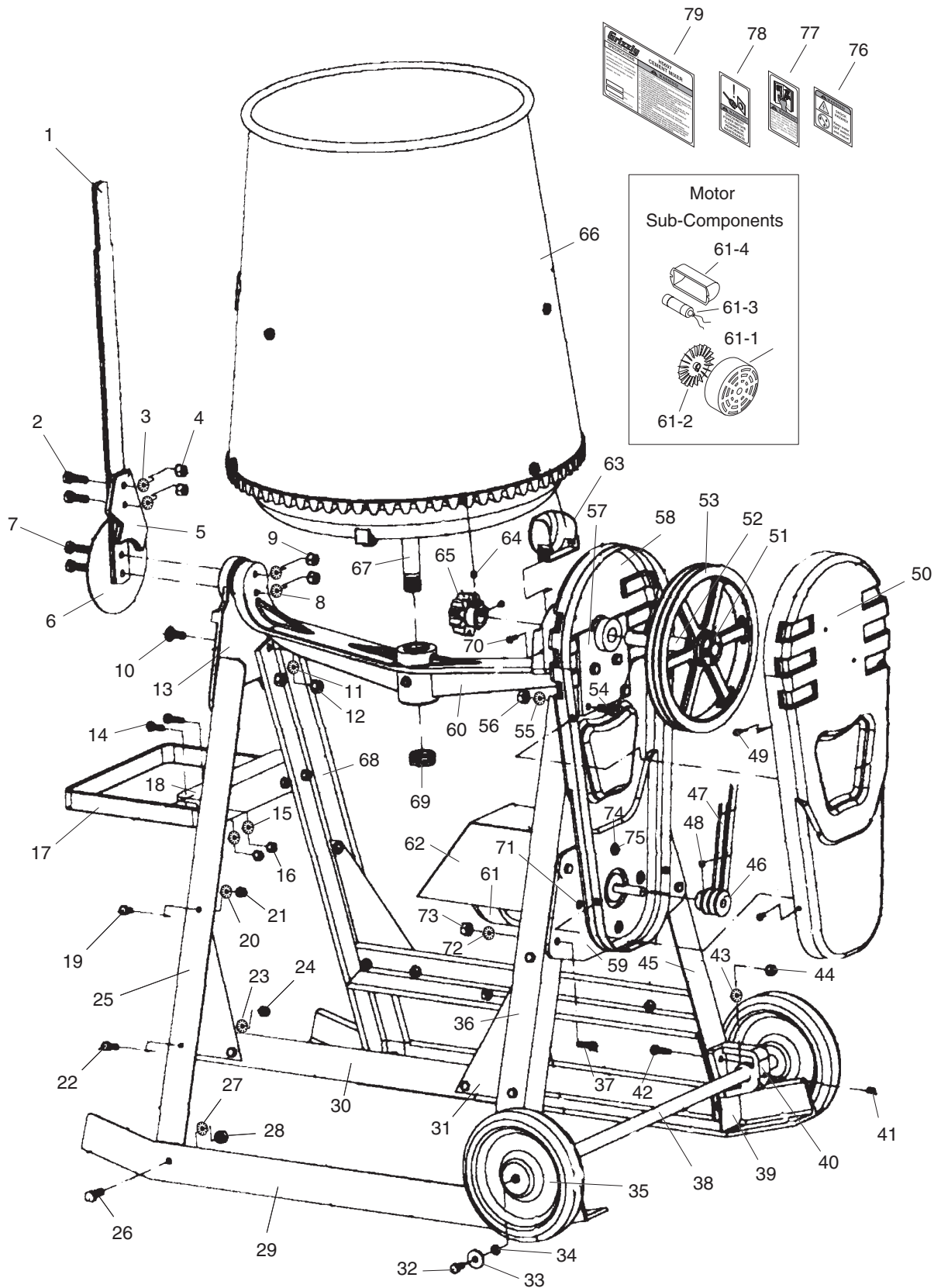
Type.....TEFC Induction  
Horsepower .....½ HP  
Phase / Voltage .....Single Phase / 110V  
Amps .....4A  
Cycle / RPM .....60 Hertz / 1725 RPM  
Bearings.....Shielded & Permanently Lubricated  
Switch.....Paddle Switch w/ Key

#### Features:

.....A-frame Type Stand  
.....5" Wheels  
.....Protected Dual-Belt Drive  
.....Cast Iron Drum Bottom

*Specifications, while deemed accurate, are not guaranteed.*

# H5697 Parts Breakdown



# H5697 Parts List

REF	PART #	DESCRIPTION
1	PH5697001	DUMP LEVER
2	PB01M	HEX BOLT M10-1.5 X 30
3	PTLW08M	EXT TOOTH WASHER 10MM
4	PN02M	HEX NUT M10-1.5
5	PH5697005	STOP PLATE
6	PH5697006	LEVER SAFETY GUARD
7	PB101M	HEX BOLT M10-1.5 X 70
8	PTLW08M	EXT TOOTH WASHER 10MM
9	PN02M	HEX NUT M10-1.5
10	PCB17M	CARRIAGE BOLT M10-1.5 X 25
11	PTLW08M	EXT TOOTH WASHER 10MM
12	PN02M	HEX NUT M10-1.5
13	PH5697013	YOKE SUPPORT
14	PB07M	HEX BOLT M8-1.25 X 25
15	PTLW09M	EXT TOOTH WASHER 8MM
16	PN03M	HEX NUT M8-1.25
17	PH5697017	HANDLE
18	PH5697018	HANDLE BRACE
19	PB03M	HEX BOLT M8-1.25 X 16
20	PTLW09M	EXT TOOTH WASHER 8MM
21	PN03M	HEX NUT M8-1.25
22	PB09M	HEX BOLT M8-1.25 X 20
23	PTLW09M	EXT TOOTH WASHER 8MM
24	PN03M	HEX NUT M8-1.25
25	PH5697025	RIGHT FRONT LEG
26	PB74M	HEX BOLT M10-1.5 X 20
27	PTLW08M	EXT TOOTH WASHER 10MM
28	PN02M	HEX NUT M10-1.5
29	PH5697029	SLIDE BRACE
30	PH5697030	CROSS BRACE
31	PH5697031	CORNER BRACE
32	PB09M	HEX BOLT M8-1.25 X 20
33	PW01M	FLAT WASHER 8MM
34	PTLW09M	EXT TOOTH WASHER 8MM
35	PH5697035	WHEEL
36	PH5697036	RIGHT BACK LEG
37	PB09M	HEX BOLT M8-1.25 X 20
38	PH5697038	AXLE
39	PH5697039	SLIDE BRACE
40	PH5697040	AXLE BRACE
41	PSS06M	SET SCREW M8-1.25 X 16
42	PB07M	HEX BOLT M8-1.25 X 25

REF	PART #	DESCRIPTION
43	PTLW09M	EXT TOOTH WASHER 8MM
44	PN03M	HEX NUT M8-1.25
45	PH5697045	LEFT BACK LEG
46	PH5697046	MOTOR PULLEY
47	PVM50	V-BELT M-50 3L500
48	PSS20M	SET SCREW M8-1.25 X 8
49	PS09M	PHLP HD SCR M5-.8 X 10
50	PH5697050	OUTSIDE COVER
51	PS26M	PHLP HD SCR M6-1 X 20
52	PH5697052	SHAFT WITH BUSINGS
53	PH5697053	SPINDLE PULLEY
54	PB32M	HEX BOLT M10-1.5 X 25
55	PTLW08M	EXT TOOTH WASHER 10MM
56	PN02M	HEX NUT M10-1.5
57	PH5697057	DRIVING END PLATE
58	PH5697058	INSIDE COVER
59	PH5697059	MOTOR MOUNT
60	PH5697060	YOKE
61	PH5697061	1/2 HP MOTOR
61-1	PH5697061-1	MOTOR COVER
61-2	PH5697061-2	FAN
61-3	PC200S	CAPACITOR 200MFD 125VAC
61-4	PH5697061-4	CAPACITOR COVER
62	PH5697062	SPLASH GUARD
63	PH5697063	PINION GEAR SAFETY GUARD
64	PSS20M	SET SCREW M8-1.25 X 8
65	PH5697065	PINION GEAR
66	PH5697066	DRUM ASSEMBLY
67	PH5697067	DRUM SHAFT
68	PH5697068	LEFT FRONT LEG
69	PH5697069	SPANNER NUT M24-1.5
70	PS40M	PHLP HD SCR M5-.8 X 16
71	PFH39M	FLAT HD SCR M5-.8 X 16
72	PTLW09M	EXT TOOTH WASHER 8MM
73	PN03M	HEX NUT M8-1.25
74	PB08M	HEX BOLT M6-1 X 20
75	PW03M	FLAT WASHER 6MM
76	PH5697076	SHOCK LABEL
77	PLABEL-12	READ MANUAL LABEL
78	PLABEL-26	UNPLUG (110V) LABEL
79	PH5697079	MACHINE ID/WARNING LABEL

# WARRANTY AND RETURNS

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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 \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Number \_\_\_\_\_ E-Mail \_\_\_\_\_ FAX \_\_\_\_\_

MODEL: H5697 CEMENT MIXER Serial # \_\_\_\_\_ Order \_\_\_\_\_

The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. Of course, all information is strictly confidential.

1. How did you learn about us?  
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 Catalog  Card Deck  
 World Wide Web  
 Other \_\_\_\_\_
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 Cabinetmaker  Shop Notes  
 Family Handyman  Today's Homeowner  
 Fine Homebuilding  WOOD  
 Fine Woodworking  Wooden Boat  
 Home Handyman  Woodshop News  
 Journal of Light Construction  Woodsmith  
 Old House Journal  Woodwork  
 Popular Mechanics  Woodworker  
 Popular Science  Woodworker's Journal  
 Popular Woodworking  Workbench  
 Other \_\_\_\_\_
3. Which of the following woodworking/remodeling shows do you watch?  
 Backyard America  The New Yankee Workshop  
 Home Time  This Old House  
 The American Woodworker  Woodwright's Shop  
 Other \_\_\_\_\_
4. What is your annual household income?  
 \$20,000-\$29,999  \$60,000-\$69,999  
 \$30,000-\$39,999  \$70,000-\$79,999  
 \$40,000-\$49,999  \$80,000-\$89,999  
 \$50,000-\$59,999  \$90,000 +
5. What is your age group?  
 20-29  50-59  
 30-39  60-69  
 40-49  70 +
6. How long have you been a woodworker?  
 0 - 2 Years  8 - 20 Years  
 2 - 8 Years  20+ Years
7. How would you rank your woodworking skills?  
 Simple  Advanced  
 Intermediate  Master Craftsman
8. What stationary woodworking tools do you own? Check all that apply.  
 Air Compressor  Panel Saw  
 Band Saw  Planer  
 Drill Press  Power Feeder  
 Drum Sander  Radial Arm Saw  
 Dust Collector  Shaper  
 Horizontal Boring Machine  Spindle Sander  
 Jointer  Table Saw  
 Lathe  Vacuum Veneer Press  
 Mortiser  Wide Belt Sander
9. How many of your woodworking machines are Grizzly? \_\_\_\_\_  
 Other \_\_\_\_\_
10. Which benchtop tools do you own? Check all that apply.  
 1" x 42" Belt Sander  6" - 8" Grinder  
 5" - 8" Drill Press  Mini Lathe  
 8" Table Saw  10" - 12" Thickness Planer  
 8" - 10" Bandsaw  Scroll Saw  
 Disc / Belt Sander  Spindle / Belt Sander  
 Mini Jointer  
 Other \_\_\_\_\_
11. How many of the machines checked above are Grizzly? \_\_\_\_\_
12. Which portable/hand held power tools do you own? Check all that apply.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
13. What machines/supplies would you like Grizzly Industrial to carry?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
14. What new accessories would you like Grizzly Industrial to carry?  
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 Fasteners  Wood Components  
 Other \_\_\_\_\_
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\_\_\_\_\_  
\_\_\_\_\_
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 Yes  No
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 Yes  No
18. Would you allow us to use your name as a reference for Grizzly customers in your area? **Note: We never use names more than three times.**  
 Yes  No
19. Comments: \_\_\_\_\_  
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