

# Morbark G42

## **Quadwheel®** Installation & Operation Guide



If you have any questions or concerns, *please call 1-800-473-3683*



### BEFORE YOU BEGIN

*Read these instructions completely and carefully*

- **Note to installer** – Be sure to leave these instructions for the consumer's use
- **Note to consumer** – Keep these instructions with your Owner's Manual for future reference
- **Skill level** – Installation of the wheel requires intermediate mechanical skills. Proper installation is the responsibility of the installer. Product failure due to improper installation is not covered under any warranty
- **Helpful tips** – When installing a new v-belt it is recommended to check belt tension after 1 hour, 5 hours, 10 hours and 25 hours of machine operation as the belt will stretch.

**IMPORTANT** - Before you continue, please check the packing list to make sure it matches the contents of the boxes.



### Disconnect Power

to machine to prevent any machine components from moving before proceeding. Failure to do so could result in death or serious injury.

**FOR YOUR SAFETY** read and observe all **CAUTIONS** and **WARNINGS** shown throughout these instructions. While performing the installations that are described in this booklet, gloves & safety glasses or goggles should be worn at all times.

## Installation Preparation

### TOOLS SUPPLIED:

½" Drive, ½" 6pt Impact Allen Wrench Socket

### TOOLS YOU WILL NEED:

5/8" Socket Wrench

½" Drive Torque Wrench

**Green-Seize™**

Wire Brush

### TORQUE SETTINGS:

900 Series Nut: 35ft. lbs. (47Nm)

**LoPro™ Bolt** (lubricated with **Green-Seize™**): 180ft. lbs.

**LoPro™ Bolt** (dry): 240ft. lbs.

### MANUFACTURER'S PARTS LIST:

<b>Part Number</b>	<b>Description</b>
QW-246-L	<b>Quadwheel®</b> 2.875" Hole, 4" Bolt Hole, 6 Bolt Hole Pattern - Left
QW-246-R	<b>Quadwheel®</b> 2.875" Hole, 4" Bolt Hole, 6 Bolt Hole Pattern – Right
GW-HOLDER	Tooth Holder for <b>Greenwheel®</b> & <b>Quadwheel®</b>
GW-BLOCK	Mounting Block for <b>Greenwheel®</b> & <b>Quadwheel®</b>
926-WS2	900 Series <b>Wearsharp™</b> 2-sided Tooth, for wheels 22" & smaller, Used with <b>Greenwheel®</b> & <b>Quadwheel®</b>
900-NUT	900 Series Nut
LP-300	3" <b>LoPro™</b> Bolt
WB-M1217560109	M12 – 1.75 x 60 Hex Head Bolt 10.9
WN-M12	M12 Lock Nut
ALLENWRENCH-SOCKET	½" Drive, ½" 6pt Impact Allen Wrench Socket
MORBARK-BELT	A66 V Belt for Morbark Kit
MORBARK-SHEAVE	Sheave for Morbark Kit

*\*If your machine already has a 9" sheave, then you will not need to replace your belt & sheave*

Green Manufacturing, Inc.  
9650 Packard Rd  
Morenci, MI 49256  
Phone 800.473.3683 • Fax 517.458.1550



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# Belt & Sheave Installation Instructions



**If your machine already has a 9" sheave, it is not necessary for you to install the new belts & sheave. In this case, please skip steps 1 through 11.**

1. Remove clutch assembly guard bolts and remove cover. (Figure 1.1)



Figure 1.1

2. Remove initial drive cover bolts and remove cover. (Figure 1.2)



Figure 1.2

3. Loosen four (4) motor mount bolts. Back the motor mount adjustment bolt off approximately 1". (Figure 1.3)



Figure 1.3

4. Slide engine towards cutter wheel to loosen initial drive belts.

5. Loosen & remove the 5/8" shaft bolt in the center of clutch. It may take several taps to initially loosen the bolt. Remove clutch assembly and set off to the side. (Figure 1.4)



Figure 1.4

6. Remove initial drive belts. Set them off to the side. They will be replaced with the new belts included in your **Quadwheel®** setup.
7. Measure from back of initial drive cover to front of jack shaft sheave. Record this measurement here, as you will need it for reassembly. (Figure 1.5)

Sheave Measurement Notes:



Figure 1.5

8. Remove jackshaft sheave. **Follow split taper bushing removal instructions found on page 20.**

9. Install the new sheave with the manufacturer's bushing to the previously recorded measurement in step 7 of disassembly instructions. Remember to clean the jackshaft and bushing to ensure smooth installation. **Please refer to split taper bushing installation instructions on page 20.** (Figure 1.6)



Figure 1.6

10. Install the new belts included with your **Quadwheel®** setup. Note: When new belts are being installed it is advised to check belt tension after 1 Hour, 5 Hours, 10 Hours and 25 Hours of machine operation as the belt will stretch.

Belt Tension Check: ☐ 1 Hour ☐ 5 Hours ☐ 10 Hours ☐ 25 Hours

11. Reinstall clutch assembly. Belt tension will be set later on in the instructions.



## Disassembly Instructions

1. Remove the four (4) chip guard cover bolts. Remove chip guard. (Figure 2.1)

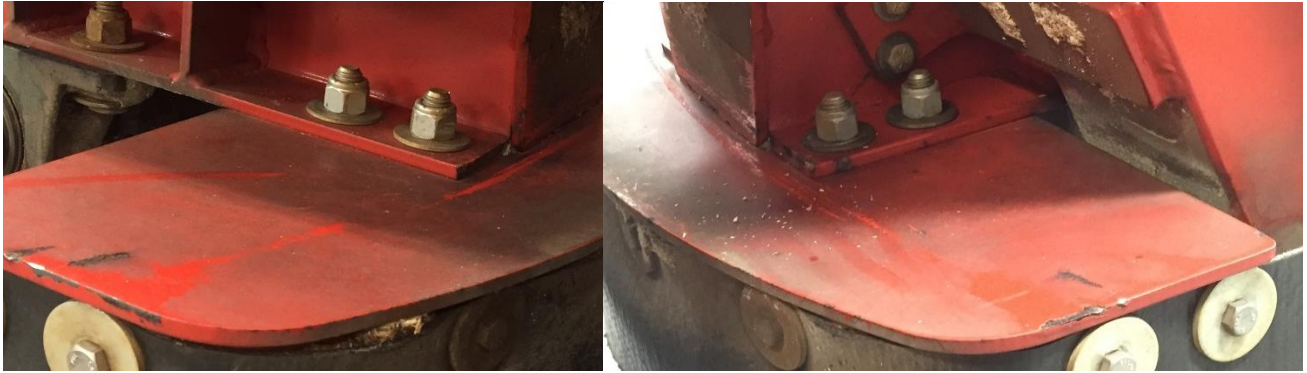


Figure 2.1

2. Remove the six (6) final drive cover bolts. (Figure 2.2)



Figure 2.2

3. Remove the four (4) final drive cover bolts that attach the final drive covers to the stump grinder. Remove final drive covers. (Figure 2.3)



Figure 2.3

4. Loosen the front bearing tensioner on final drive side. (Figure 2.4)

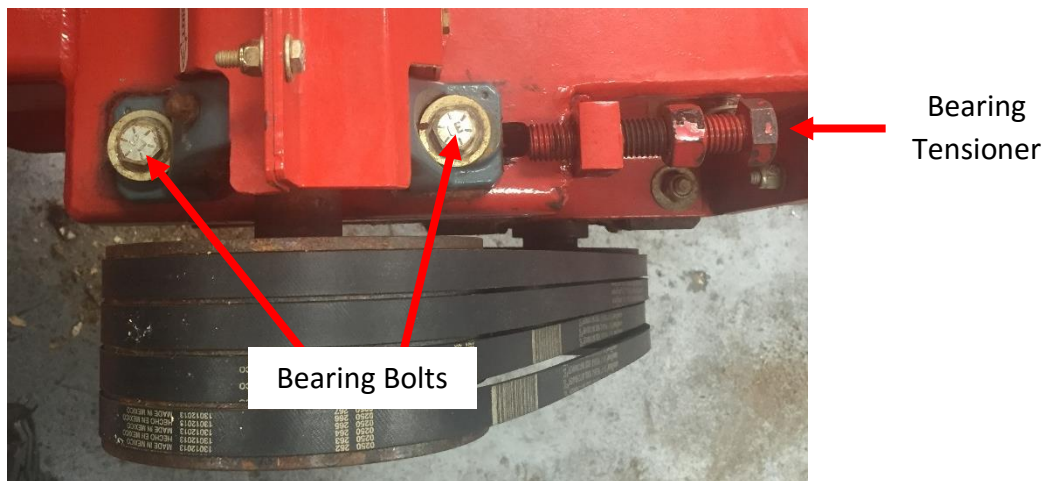


Figure 2.4

5. Loosen bearing bolts on final drive. **Do not remove bolts.** (Figure 2.4)



6. Pull top sheave forward to loosen the final drive belts. Remove final drive belts. (Figure 2.5)

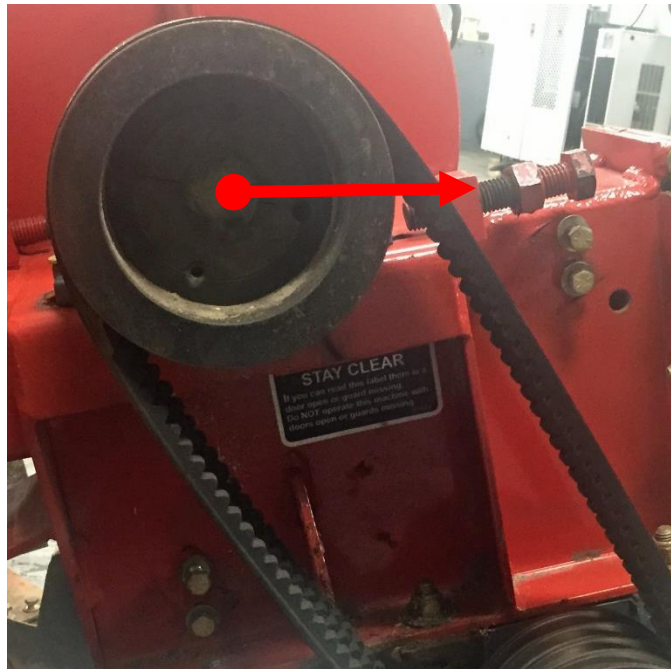


Figure 2.5

7. Measure from the outside of the bearing mount to the front of the bottom final drive sheave. Record this measurement here, as you will need it for reassembly. (Figure 2.6)

Sheave Measurement Notes:



Figure 2.6

8. Remove bottom final drive sheave. **Follow Taper-Lock® bushing removal instructions on page 19.** (Figure 2.7)

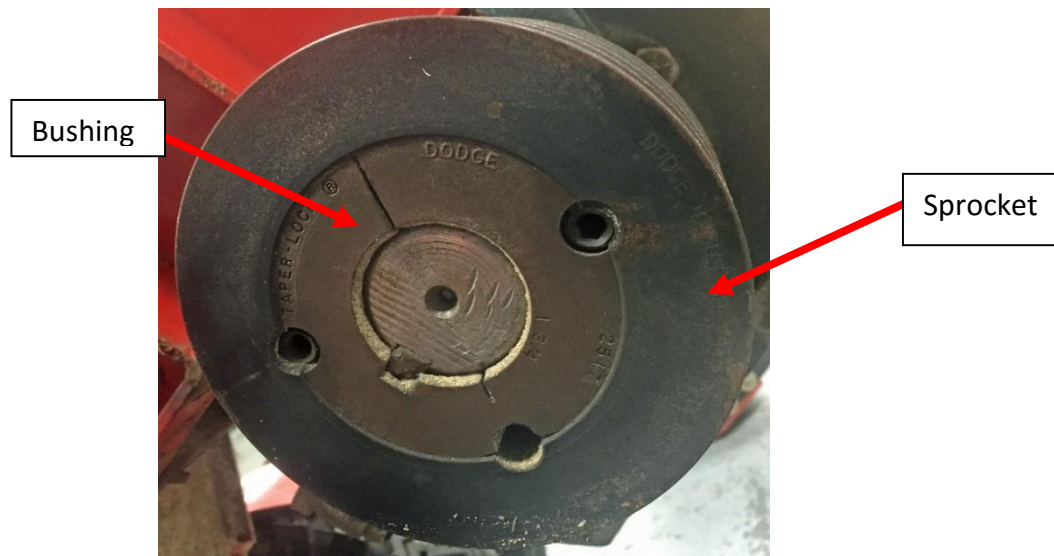


Figure 2.7

9. Loosen and remove left pillow block bearing bolts. (Figure 2.8)



Figure 2.8

10. Remove right pillow block bearing bolts.



**Warning:** The cutter wheel assembly weighs approximately 112 lbs. Use caution when loosening bolts. Cutter wheel assembly may drop unexpectedly. Floor jack or equivalent lowering device is recommended for easier removal. (Figure 2.8)

11. Remove and lower cutter wheel assembly.
12. Loosen two (2) setscrews on both the right and left side bearing collars. (Figure 2.9)

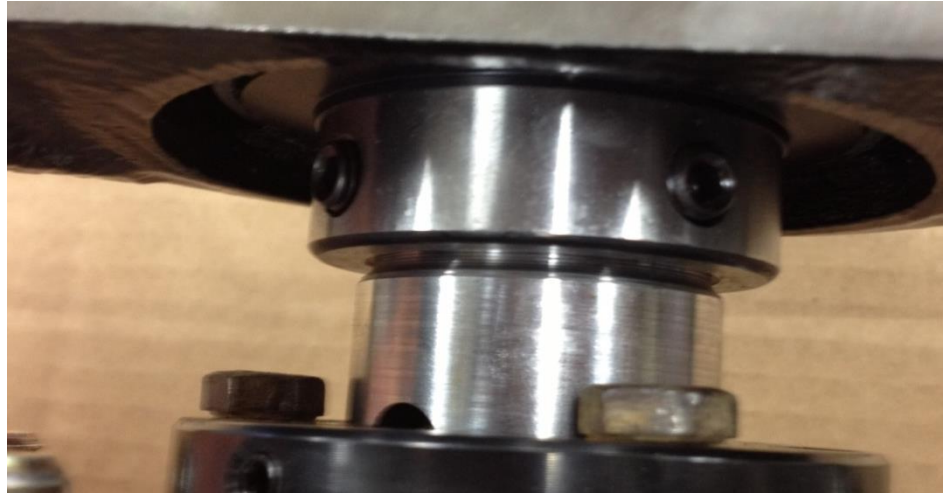


Figure 2.9

13. Loosen the cutter wheel shaft end bolt and remove it along with the cutter wheel washer. (Figure 2.10)



Figure 2.10

14. Remove bearings from the cutter wheel shaft. In some instances, bearings may need to be pressed off or cut away from the shaft.

15. Remove six (6) nuts and bolts holding cutter wheel to the cutter wheel shaft. Set shaft and bolts off to the side. (Figure 2.11)



Figure 2.11

## **Quadwheel® Assembly Instructions**

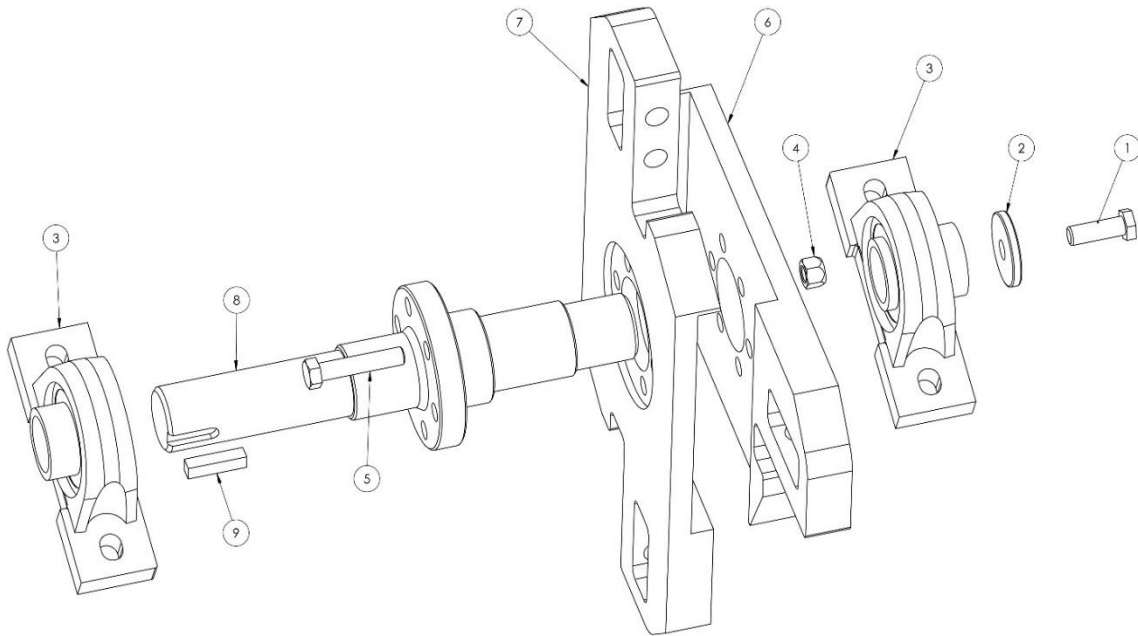


Figure 3.1

(Use Figure 3.1 for the next 6 steps)

1. Assemble **Quadwheel®** - Right (6) to **Quadwheel®** - Left (7) (Be sure bolt holes align correctly between the Left and Right **Quadwheel®** Pieces).
2. Mount shaft (8) using nuts (4) & bolts (5) to **Quadwheel®** (6 & 7).
3. Thread nuts (4) to bolts (5) and torque down to 91 ft/lbs.
4. With the bearing collar facing the **Quadwheel®**, slide the right bearing (3) onto the hub side of the cutter wheel shaft. Tighten two allen head set screws in the bearing collar.
5. Assemble bolt (1) and heavy washer (2) into right side of shaft.
6. With the bearing collar facing the **Quadwheel®**, slide the left bearing onto the opposing side of the cutter wheel shaft. Tighten two allen head set screws in the bearing collar.



## Assembling the *Quadwheel*® to Machine

1. With the bolt holes from the bearings lined up with those on the machine, set cutter wheel in place onto machine. **Floor jack or equivalent lifting device is recommended for easier installation.**
2. Loosely reinstall the bearing mounting bolts on the right side of wheel.
3. Loosely reinstall the bearing mounting bolts on left side of wheel.
4. Position bearings as far forward as possible. This will make correct belt tension easier to achieve. Tighten all 4 bearing mounting bolts.
5. Check center position of the *Quadwheel*® (Figure 4.1). Bearing positions may need to shift depending on the center adjustment needed for the *Quadwheel*®.



Figure 4.1

6. Loosely install *Quadwheel*® holders and mounting blocks to the wheel. Insert **LoPro™** bolts lubricated with **Green-Seize™**. Torque the wheel holder bolts evenly until you've reached 180 ft. lbs. (240ft. lbs. dry) on each bolt. (Figure 4.2)
7. Install **Greenteeth®** on all holder positions and torque to 35 ft. lbs. (Figure 4.2)

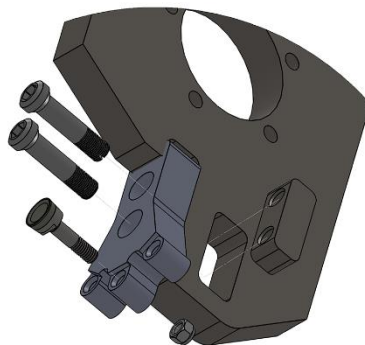


Figure 4.2



8. Manually rotate the wheel to ensure each tooth position will have suitable clearance inside cutter wheel guard. (Figure 4.3)



Figure 4.3

9. Place final drive belts and bottom final drive sheave onto the cutter wheel shaft.
10. Reinstall bottom final drive tapered bushing & sheave to the previously recorded measurement in step 18 of the disassembly instructions. **Follow Taper-Lock® bushing installation instructions on page 19.** (Figure 4.4)



Figure 4.4

11. Once bottom final drive sheave is installed, double check the measurement from the back final drive cover to front of both top and bottom sheave to ensure even alignment. (Figure 4.5)



Figure 4.5

12. Realign jackshaft bearings. Ensure there is proper tension to final drive belts. Tighten jackshaft bearing nuts and tensioners when a suitable tension to final drive belt is achieved. (Figure 4.6)



Figure 4.6

13. Visually check belt positioning between the top and bottom sheaves. Make sure the belts are aligned correctly. If adjustments need to be made, loosen the bottom final drive bushing and repeat step 8 until final drive belts maintain correct position on final drive sheaves.

14. Tighten engine mount tensioner checking periodically to ensure proper tension to initial drive belt.
15. Once proper tension to the initial drive belt is achieved, tighten motor mount nuts and bolts. (Figure 4.7)

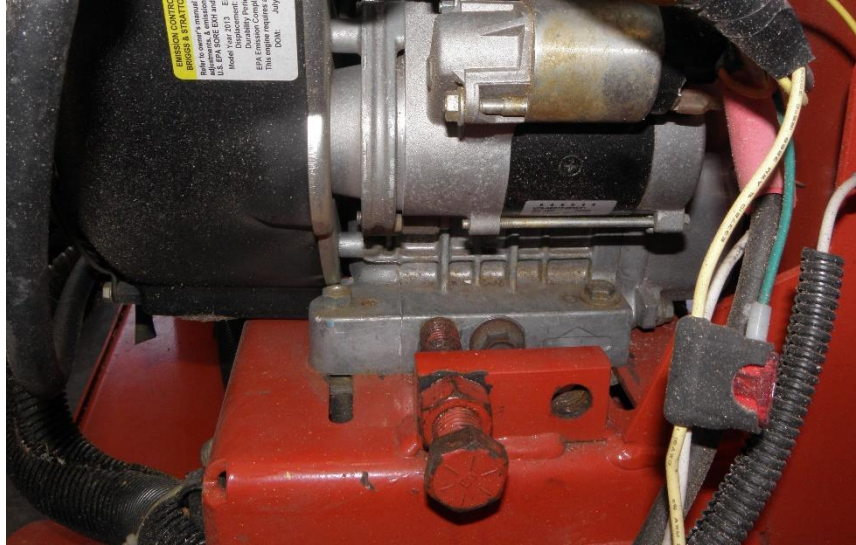


Figure 4.7

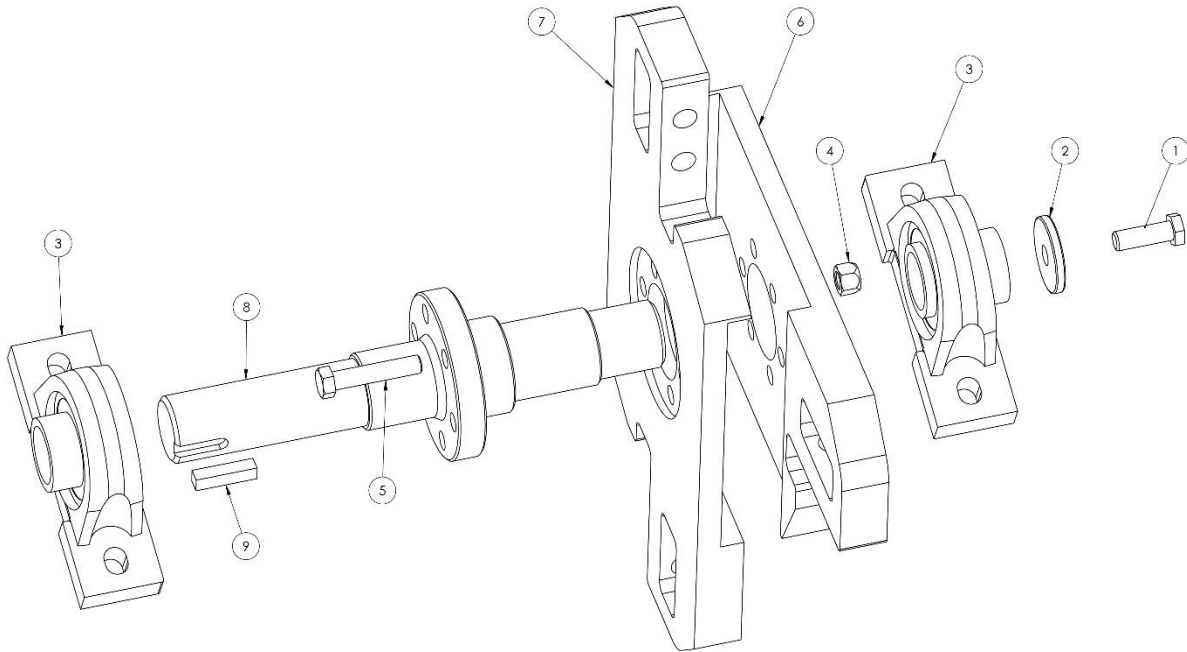
16. Reinstall final drive cover.
17. Reinstall chip guard cover. (Figure 4.8)



Figure 4.8

18. Reinstall initial drive cover.
19. Reinstall clutch assembly cover.
20. Reconnect power to machine.
21. Start machine engine and engage the **Quadwheel®**.
22. Ensure there are no unusual noises emanating from machine.

## **Quadwheel® Drive Assembly – Expanded View**



<b>Quadwheel® Drive Assembly</b>			
<b>Item #</b>	<b>Part #</b>	<b>Description</b>	<b>Qty</b>
<b>1</b>		Hex Bolt 1/2 - 13 X 1-1/2	<b>1</b>
<b>2</b>		1/2 Heavy Washer	<b>1</b>
<b>3</b>		Bearing - PB (1-3/4)	<b>2</b>
<b>4</b>		Mechanical Lock Nut M12 - 1.75	<b>6</b>
<b>5</b>		Hex Bolt M12 – 1.75 X 60mm	<b>6</b>
<b>6</b>		<b>Quadwheel® - Right</b>	<b>1</b>
<b>7</b>		<b>Quadwheel® - Left</b>	<b>1</b>
<b>8</b>		Cutter Wheel Shaft	<b>1</b>
<b>9</b>		3/8 Bushing Keystock	<b>1</b>

# Taper-Lock® Bushing Removal & Installation Instructions



**Warning:** Use of Anti-Seize lubricant on tapered cone surfaces or on bolt threads when mounting may result in damage to sheaves. This voids all manufacturers' warranties.

1. To remove from shaft:
  - a. Remove all screws.
  - b. Insert screws in holes indicated by ● on drawing (Figure 5.1). Loosen bushing by alternately tightening screws by following torque specs (Table 1.1).
2. Installation Instructions:
  - a. Clean shaft, bore of bushing, outside of bushing, and hub bore of all oil, paint, and dirt. File away burrs.
  - b. Insert bushing into hub. Match the hole pattern, not threaded holes. Each complete hole will be threaded on one side only.
  - c. Lightly oil setscrews and thread into those half-threaded holes indicated by ○ on drawing (figure 5.1).
 

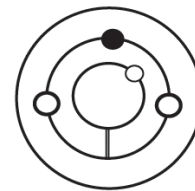
**CAUTION: Do not lubricate the bushing taper, bushing bore, hub taper or the shaft. Doing so could result in breakage of the product.**
  - d. Position assembly onto shaft allowing for the small axial movement which will occur during lightening procedure.
  - e. Alternately torque setscrews to recommended torque setting in chart below.
 

**CAUTION: Do not use worn hex key wrenches. Doing so may result in a loose assembly or may damage screws.**
  - f. To increase gripping force, lightly hammer face of bushing using drift or sleeve. Do not hit bushing directly with hammer.
  - g. Re-torque screws after hammering.
 

**CAUTION: Where bushing is used with lubricated products such as chain, gear or grid couplings be sure to seal all pathways (where lubrication could leak) with RTV or similar material.**
  - h. Recheck screw torques after initial run-in, and periodically thereafter. Repeat steps e, f and g, if loose.

Insert Screw Torque Table	
Bushing Type	Wrench Torque in./lbs.
2012	192

Table 1.1



**2012**

○ Insert Screws to Install      ● Insert Screws to Remove

Figure 5.1



# Split Taper Bushing Removal & Installation Instructions



Warning: Use of Anti-Seize lubricant on tapered cone surfaces or on bolt threads when mounting may result in damage to sheaves. This voids all manufacturers' warranties.

1. To Remove From Shaft:
  - a. Remove capscrews and insert them into tapped holes in bushing flange. (Figure 6.1)
  - b. Tighten progressively until bushing disengages.
  - c. Remove assembly from shaft.
2. Installation Instructions:
  - a. Wipe bushing barrel, bushing bore and shaft clean with a soft dry cloth. Remove paint & other foreign material from bore of mating part. **Do not lubricate bushing, bore of mating part, shaft or capscrews.**
  - b. Put bushing loosely into hub. Start capscrews by hand, turning them just enough to engage threads. Do not use a wrench at this time.
  - c. Slide assembly onto shaft. Line up drive components.
  - d. Tighten capscrews progressively with a torque wrench until each has been tightened to correct torque. (Table 2.1)

Bolt Torque Table		
Bushing Type	Cap Screw Size	Wrench Torque in./lbs.
P	5/16 - 18	192
Q	3/8 - 16	348
SK	5/16 - 18	180
SF	3/8 - 16	360

Table 2.1



Figure 6.1  
(Bushing Only Pictured)



## **Quadwheel®** Procedure for Cutting a Stump



Always follow all warnings and safety guidelines referenced in your equipment manufacturer's manual.

### 1. Prepare The Machine:

- a. Drive the machine into position with the cutting wheel shaft above the top front edge of the stump. (Figure 7.1)



Figure 7.1

- b. Engage **Quadwheel®** and move the engine throttle to Fast. (Figure 7.2)



Figure 7.2

- c. While moving the boom left and right, adjust the Left/Right travel to as slow as possible. (Figure 7.3)



Figure 7.3

2. Fine Tune Travel Speed
3. Lower the **Quadwheel®** into the stump. With travel speed set to its lowest setting, swing the cutting wheel across the stump removing as much material as your machine will comfortably cut. Slightly increase the travel speed until the **Quadwheel®** is comfortably removing as much material as possible in a single pass. Repeat if necessary (**A depth of cut greater than 1 ½ inches greatly increases the possibility of holder wear and voids all product warranties**). (Figure 7.4)



Figure 7.4

## **QUADWHEEL® GUARANTEE**

### ***NEW SETUPS AND FIRST TIME CUSTOMERS:***

If you purchase a **Quadwheel®** setup and are not completely satisfied with its performance, please contact Green Manufacturing at 800.473.3683 to request a return authorization within 90 days of purchase date for a product refund or exchange.

### ***WARRANTY:***

If you are not completely satisfied with your purchase, please contact Green Manufacturing, Inc. at 800.473.3683 to request a return authorization within 30 days of purchase date for a product refund or exchange. We strive to provide exceptional quality products. Our products undergo a stringent quality control process, however if you feel that there is an issue with the quality of your product, please contact Green Manufacturing, Inc. immediately. We will accept unused parts for return or exchange for up to 30 days from the date of purchase with proof of purchase included with the return.

Seller's warranties against defects and non-conformities and defects shall continue to apply only so long as the Goods: (i) have been installed, maintained and used in conformity with instructions furnished by Seller from time to time, if any, and otherwise in conformity with the highest industry practices; (ii) have been subjected to normal use for the purpose for which the Goods were designed; (iii) have not been subjected to misuse, negligence or accident; (iv) have not been altered or repaired by persons other than Seller or Seller authorized warranty service providers in any respect which, in the judgment of Seller, adversely affects the condition or operation of the Goods; and (v) have been fully paid for. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY SPECIAL, INDIRECT, EXEMPLARY, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE LOSSES OR DAMAGES (INCLUDING, WITHOUT LIMITATION, BUSINESS INTERRUPTION, REVENUE OR PROFITS, FEES OR FINES), EVEN IF SELLER HAS BEEN ADVISED OR MADE AWARE OF THE POSSIBILITY OF ANY SUCH LOSSES OR DAMAGES AND REGARDLESS OF WHETHER THE CLAIM IS BASED ON CONTRACT, TORT, STRICT LIABILITY, OR OTHER THEORY OF LIABILITY. Seller's cumulative liability for all losses and damages under these General Terms and Conditions or under any of the Related Agreements (including, without limitation, those arising out of contract tort (including negligence), strict liability, warranty, or other theory of liability) shall not exceed (a) in the case of any services provided or to be provided by Seller, the amount of the fees payable by Buyer for such services under the applicable Related Agreement, and (b) in the case of any products or devices provided or to be provided by Seller, the amount of Seller's labor services associated with the product sale. Seller reserves the right to make, without notice to Buyer, alterations to a product that do not materially affect agreed specifications or the product's form, fit or function.

***The Quadwheel® is proudly manufactured in the USA by Green Manufacturing, Inc.***

Green Manufacturing, Inc.  
9650 Packard Rd  
Morenci, MI 49256  
Phone 800.473.3683 • Fax 517.458.1550



# MATERIAL SAFETY DATA SHEET

## I - PRODUCT IDENTIFICATION

**Trade Name:** Tungsten Carbide **Chemical Family:** Refractory Metal Alloy

**Chemical Formula:** WC **CAS#:** 12070-12-1

## II - HAZARDOUS INGREDIENTS

**Hazardous Components % OSHA/PEL ACGIH/TLV Sec. 302 Sec. 304 Sec. 313**

Tungsten Carbide 0-100 N/E N/E No No No

Tungsten compounds 0-100 5 mg/m<sup>3</sup> C - 1 0 mg/m<sup>3</sup> No No No

**HM IS Ratings (0-4): Health:** 3 **Flammability:** 0 **Reactivity:** 0

**HM IS Protective Equipment:** H: glasses, gloves, clothing, combo respirator

## III - PHYSICAL DATA

**Boiling Point:** 6000 oC **Melting Point:** 2820 - 2940 oC

**Evaporation Rate:** N/A **% Volatiles:** N/A

**Solubility in H<sub>2</sub>O:** Insoluble **Vapor Pressure:** N/A

**Vapor Density:** N/E **Specific Gravity:** 13.6 gm/cc at 18 oC

**Appearance and Odor:** Grey to black powder, odorless **Molecular Weight:** 195.86

## IV - FIRE AND EXPLOSION HAZARDS DATA

**Flash Point:** N/A **Flammability:** Non-Flammable

**Explosive Limits: Lower:** N/A **Upper:** N/A

**Extinguishing Media:** Use suitable extinguishing media for surrounding materials and type of fire.

**Special Fire Fighting Procedures:** Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

**Unusual Hazard:** Dusts may present a fire or explosion hazard under rare favoring conditions of particle size, dispersion, and strong ignition source. However, this is not expected to be a problem under normal handling conditions.

## V - HEALTH HAZARD INFORMATION

**Routes of Entry:** Inhalation, ingestion, skin or eye contact (for dusts, mists, powder, and fume).

**Effects of Overexposure:** Industrially tungsten does not constitute an important health hazard. Exposure is related chiefly to the dust arising out of the crushing and milling operations. Chronic inhalation of the dust may cause lung damage in humans. Heavy exposure to the dust or the large amounts of the soluble compounds produces changes in body weight, behavior, blood cells, choline esterase activity and sperm in experimental animals.

### **Acute Effects:**

**Inhalation:** Toxic by inhalation. May cause irritation to the mucous membranes, coughing, dyspnea, soreness in the chest, weight loss, hemoptysis, bronchitis, asthma, pulmonary fibrosis and radiological changes in the lungs.

**Ingestion:** May cause irritation to the gastrointestinal tract and diarrhea.

**Skin:** May cause irritation.

**Eye:** May cause irritation.

### **Chronic Effects:**

**Inhalation:** May cause damage to the lungs.

**Ingestion:** No chronic health effects recorded.

**Skin:** May cause dermatitis, sensitization and eczema.

**Eye:** May cause conjunctivitis.

**Medical Conditions Generally Aggravated by Exposure:** Pre-existing respiratory and skin disorders.

**Target Organs:** May affect the respiratory system.

**Carcinogenicity:** NTP: No IARC: No OSHA: No

**EMERGENCY AND FIRST AID PROCEDURES:**

**INHALATION:** Remove victim to fresh air. Keep warm and quiet, give oxygen if breathing is difficult and seek medical attention.

**INGESTION:** If conscious, give 1-2 glasses of milk or water and induce vomiting (Never induce vomiting or give anything by mouth to an unconscious person). Seek medical attention.

**SKIN:** Remove contaminated clothing from affected area, brush material off skin. Wash affected area with mild soap and water. Seek medical attention if symptoms persist.

**EYE:** Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.

**VI - REACTIVITY DATA**

**Stability:** Stable

**Conditions to Avoid:** None

**Incompatibility (Material to Avoid):** Chlorine, fluorine, nitrogen dioxide, nitrous oxide, iodine pentafluoride and lead oxide.

**Hazardous Decomposition Products:** None recorded.

**Hazardous Polymerization:** Will not occur

**VII - SPILL OR LEAK PROCEDURES**

**Steps to Be Taken in Case Material Is Released or Spilled:** Wear appropriate respiratory and protective equipment specified in Section VIII. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

**Waste Disposal Method:** Dispose of in accordance with all local, state, and federal regulations.

**VIII - SPECIAL PROTECTION INFORMATION**

**Respiratory Protection:** NIOSH approved dust, mist, and vapor cartridge respirator.

**Ventilation:** Use local exhaust ventilation which is adequate to limit personal exposure to airborne dust levels which do not exceed the appropriate PEL or TLV. If such equipment is not available, use respiratory protection as specified above.

**Protective Gloves:** Rubber gloves.

**Eye Protection:** Safety glasses.

**Other Protective Clothing or Equipment:** Protective gear suitable to prevent contamination.

**IX - SPECIAL PRECAUTIONS**

**Precautions to Be Taken in Handling and Storage:** Store in a tightly sealed container in a cool, dry, well-ventilated area. Wash thoroughly after handling.

**Other Precautions:** Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Green Manufacturing, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.