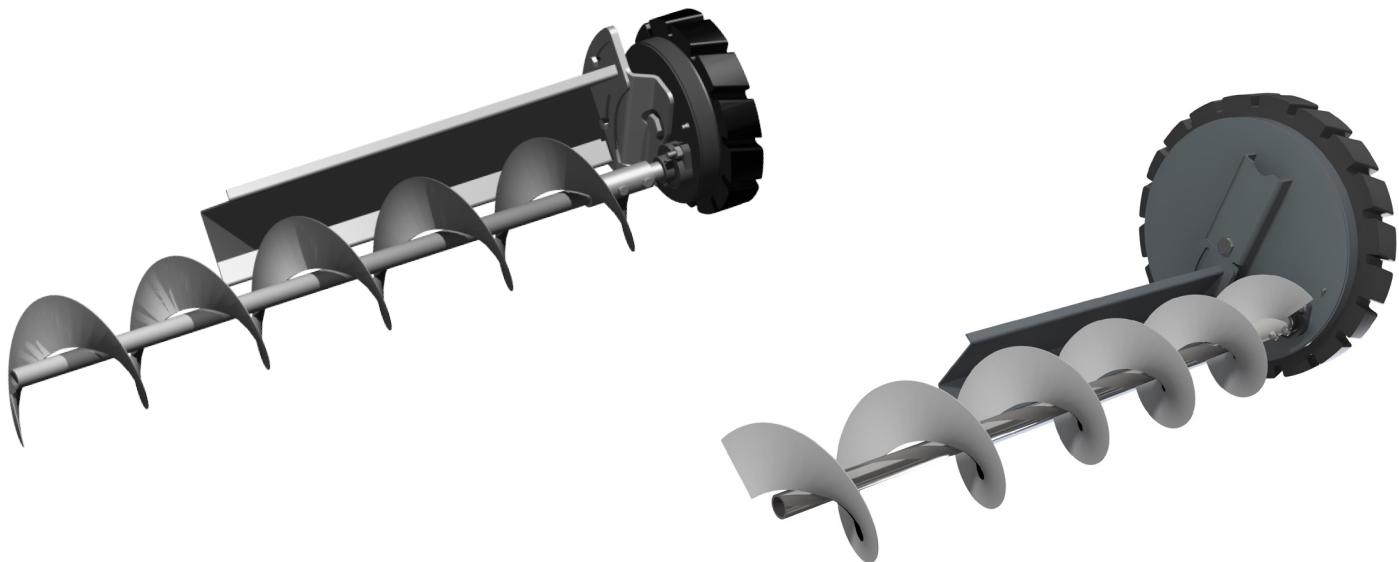




Haven Industries

**SWEEP REDUCTION
WHEEL
OPERATOR'S MANUAL**



INSTALLATION INSTRUCTIONS:

5:1 / 10:1 Reduction Wheel



Congratulations! You have just purchased the finest grain handling equipment components available today! This reduction wheel is truly unique. It features a fully rebuildable design, unmatched workload performance, and a rigid overall construction. To ensure proper use and a full life span, read the entire manual to learn about maintenance and adjustments before using it.

First of all;

- NEVER enter the storage structure while this equipment is in operation.
- BE SURE all guards on the sweep auger and powerhead drives are in place before connecting power or starting this equipment.
- NEVER allow children or any personnel who are unfamiliar with the features or hazards of this equipment to operate it without proper supervision.

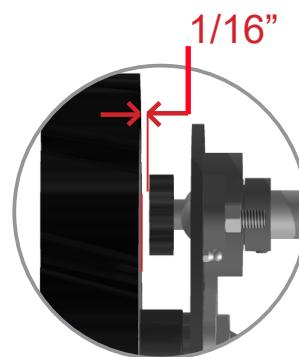
Note: If any warning or safety decals become lost or damaged in any manner, please contact us for free replacements.

There are 4 simple steps to ensure this reduction wheel is adjusted correctly. The wheel may or may not be adjusted in the factory depending on whether or not it was added after purchasing your sweep. It is ultimately up to the operator to ensure the proper adjustments are made.

Drive sprocket depth

The depth of the sprocket shaft is critical. If the sprocket rubs against the disc in the ring gear cavity, it will cause damage to the sprocket and the disc. The ring gear thickness allows for the sprocket to be spaced 1/8" from the back, and still fully engage the ring gear. Perform the procedure below to set the the depth properly.

1. Release the locking collar on the flanged bearing.
2. Push the drive sprocket into the bearing against the inside disc.
3. Retract the sprocket 1/8"
4. Tighten the offset locking collar and the set screw.

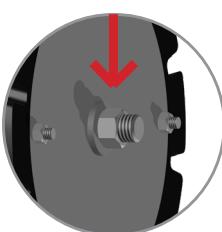
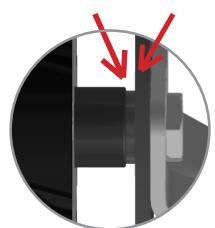


LOCK NUT TORQUE

Setting the torque on the lock nut is critical. When tightening the lock nut on the end of the wheel, you must be careful not to overtorquing it. This will cause friction between the front gear cover and the brass bushing. The bushing acts like a bearing for the wheel. If overtorqued, the bushing will wear and heat unnecessarily under this stress. Below is a simple procedure to tighten it properly.

1. Make sure the rubber wheel assembly is pushed onto the bolt all the way.
2. Turn the screw the lock nut and the washer onto the bolt.
3. Tighten the nut to the exact point where the washer will not turn by hand, then stop. Do not over-torque!

Brass bushing Gear cover



!! WARNING !!

Exposed belts and chains can cause severe injury or death! Lock out all power before removing guards.

!! WARNING !!

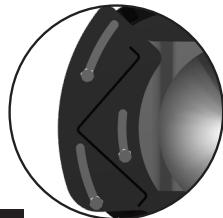
Exposed screw conveyors can cause severe injury or death! Lock out all power before entering storage facility.

LUBRICATION

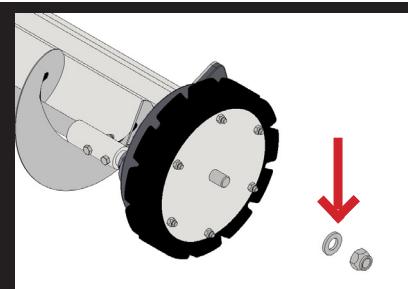
The last step you want to take is greasing the zerk. High-temp, anti-wear lithium grease is recommended. Greasing the ring gear will put an anti-wear agent in the pressure points, it will also help dissipate the heat.

1. Apply 15-30 pumps to the zerk on the disc from a grease gun. The idea is to provide enough grease to cover all the teeth on the ring gear.
2. Apply 1-2 pumps to the flanged bearing.

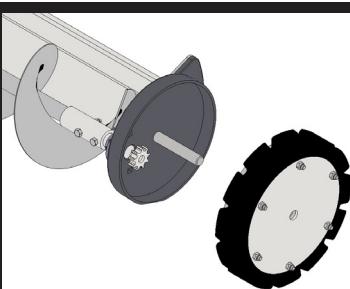
Adjusting the height of the sweep is optional. The slots on the mounting plate allows approximately 2" adjustment. This allows the sweep to be lowered to the floor, minimizing the gap beneath it. As the rubber wears, this adjustment may be changed to accomodate the wear.



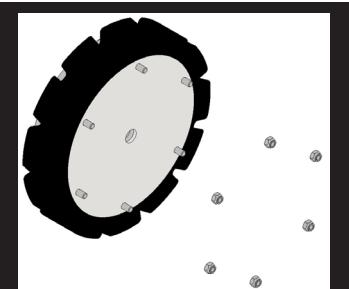
CHANGING THE RUBBER TREAD



Step 1: Remove Lock Nut & Washer.



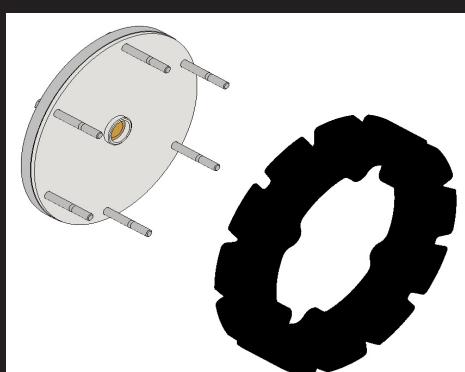
Step 2: Remove Gear Casing Assembly.



Step 3: Remove front-wheel plate nuts.



Step 4: Remove front wheel plate to free tire.



Step 5: Remove tire. (Retrace steps to re-assembly).

Tools Needed:

- Two 1/2" wrench
- One 1-1/8" wrench
- Flat Blade Screw driver for front plate removal

This illustration shows how to change the rubber tread on the 5:1 wheel. The same technique applies to the 10:1 wheel.

REPLACEMENT PARTS

We offer replacement parts to rebuild existing installations. Ring gear(s) may be purchased individually or as a set. Decals and manuals can be provided for free.

PART #	DESCRIPTION
RW5C/RW10C	Front cover and mounting plate weldment
RW5G/RW10G	Ring gear section (single section)
RW5T/RW10T	12" Rubber Tread / 20" Rubber Tread
RWBB	Brass bushing
RWFB	1" flange bearing
RWSH	Sprocket shaft weldment

LIMITED WARRANTY

HAVEN INDUSTRIES, hereinafter is referred to as "Agent". The manufacturers of The Grain Saver® Auger Equipment warranties each Grain Saver® product to be free from defects in material and workmanship for a period of twelve (12) months. The "defects" must be reported to the manufacturer, the "Agent", or to the "Agent's" representatives within the 12 month warranty period commencing on the date of the original sale.

This limited warranty is made expressly in lieu of all other warranties, whether expressed or implied but not limited to, warranties of merchantability and fitness for a particular purpose, and of all other obligations or liabilities on the part of the "Agent". The customer's rights and remedies are governed exclusively by the terms and conditions of this limited manufacturer's warranty, and the customer expressly waives for himself, and any subsequent purchaser, any claim based upon contract, tort, strict liability, or otherwise.

"Manufacturer's" obligation and sole remedy under this warranty is exclusively limited, at "manufacturer's" option, to either repair or replace any part or product found to be "defective" providing that such part or product be returned to the "Agent's" place of business in Dexter, Minnesota, Transportation Charges Prepaid, or to the selling dealer or distributor's place of business from whom the purchase was made. All corrective work on products must be approved in writing by "Agent" prior to such repairs. No allowances will be made for corrective work that has been completed without this expressed approval.

Improper lubrication, improper installation, deterioration by chemical action, and premature wear caused by the presence of abrasive material does not constitute "defects".

This warranty shall not render "Agent" liable for any consequential damages including, and without limitation to; personal injury, expenses of removing the product, loss or damage resulting to the equipment or structure(s) in which the "Manufacturer's" products have been installed, loss of such equipment or structure, loss of commodity, or loss of profits.

This warranty shall be declared null and void immediately if the purchaser or the representative of the purchaser, or anyone else shall modify or install, or cause to be modified or installed replacement parts not sold, distributed, or approved by the "Manufacturer".

This warranty shall not be extended to gearboxes, batteries, drive belts, tires, inner tubes, electrical controls, or any purchased component that carries its own manufacturer's warranty. The warranty on these products shall be limited only to the term of the published warranties on these products.

Manufacturer is not responsible for installation of the product, and is not liable for any loss or damage attributed to any improper installation.

"Agent" neither assumes nor authorizes anyone to assume for "Agent", any liabilities in connection with the sale of its products.

All claims under this limited warranty must be presented in writing within 30 days of the date of assumed failure to: HAVEN INDUSTRIES 67374 310th St. Dexter, Minnesota 55926. Failure to do so will result in customer's claim being waived and not enforced.

This warranty is subject to existing conditions of supply, which may directly affect the ability of the "Manufacturer" to obtain materials or manufactured replacement parts.

Customer agrees to incorporate the terms of this warranty into any subsequent sale or transfer of these products to a third party such that the "Agent's" liability shall be expressed, limited to the terms and conditions of this limited warranty, as well as the choice of law and choice of jurisdiction provisions of this agreement. If any party brings any action against the "Agent", for other than those set forth in this limited warranty against any such claims and/or judgments thereon. In no event shall the "Agent's" liability extend beyond the terms and conditions of the warranty provided to the "Agent's" original customer.

Customer agrees that Customer's rights and responsibilities, in regard to this transaction, shall be governed by the laws of the state of Minnesota and shall be the exclusive jurisdiction for bringing any dispute in regards to this transaction.

Customer acknowledges that he is knowledgeable concerning the goods purchased from the "Agent". Customer has reviewed the limited warranty and that the remedies provided are adequate and acceptable to the customer. "Agent" is not responsible or liable for any claim of personal injury or death.



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