

Cyclone Nut Rake

Assembly & Operation Instructions **Walk Behind Model**



WOODLAND POWER PRODUCTS, INC.

72 Acton Street, West Haven, Connecticut 06516

www.CycloneNutRake.com

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TOLL-FREE 1-(888)-531-RAKE

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Quick Start Guide

Thanks for your recent purchase of the Cyclone Nut Rake (CNR). We think you're really going to enjoy using it. This Quick Start Guide will give you a few tips to make sure it performs perfectly.

Your Cyclone Nut Rake will come set up to pick up smaller nuts with a diameter up to 1 inch. If you need to pick up larger nuts, we've included spacer wheels which easily install on your CNR and let you collect larger nuts including hickory, chestnuts, black walnuts and sweet gum balls...even golf balls.

More information about the spacers wheels can be found on the next page.

Using Your New Cyclone Nut Rake

1. Try to do the nut collecting when the grass is at an average length.

If you use the CNR when the grass is very tall, the grass will tend to mat down under the wheels and may obstruct the wheels, making it harder for them to grab the nuts or the husks from the nuts.

2. Make sure your lawn is not overly saturated from recent rain.

If your lawn is too wet, your pickup wheels could sink into the wet soil and this would create less effective collection.

3. Try to use the CNR when the lawn is not totally covered with leaves or other debris.

Again, this can cause the pickup wheels to be "blinded" and the wheels will be less effective. This does not mean the lawn needs to be spotless. It's okay if the CNR picks up some leaves or twigs with the nuts. This is normal and to be expected.

4. Please try to avoid picking up larger sticks.

If you do get a stick caught, simply stop and remove it and you'll be back in action.

5. Push the CNR at a comfortable walking speed.

You'll also want to keep the collection bin between 4 and 8 inches off the ground. If you push down on the handles and lift the bin too high creating a steeper incline, the nuts will not be tossed as effectively into the bin.

6. Finally, it may be helpful to pass over some areas a few times.

This will allow you to collect any nuts that were missed on the first pass. You'll find that approaching the nuts from different directions will let you recover nuts you may have missed.

We know you'll love your new Cyclone Nut Rake and we hope these helpful tips will get your nut collection off to a great start. However if you have any questions or need help with this or any Cyclone Rake Product, we have an amazing Customer Service Team here to support you.



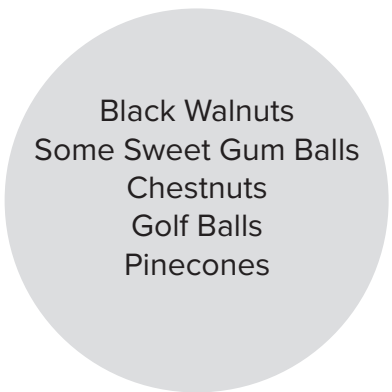


Spacer Wheel Instructions

The Cyclone Nut Rake is a versatile tool that will help you collect a wide variety of nuts (and other items) that are on the ground. To get the maximum effectiveness from the tool, please review the information below regarding use of the spacer wheels.

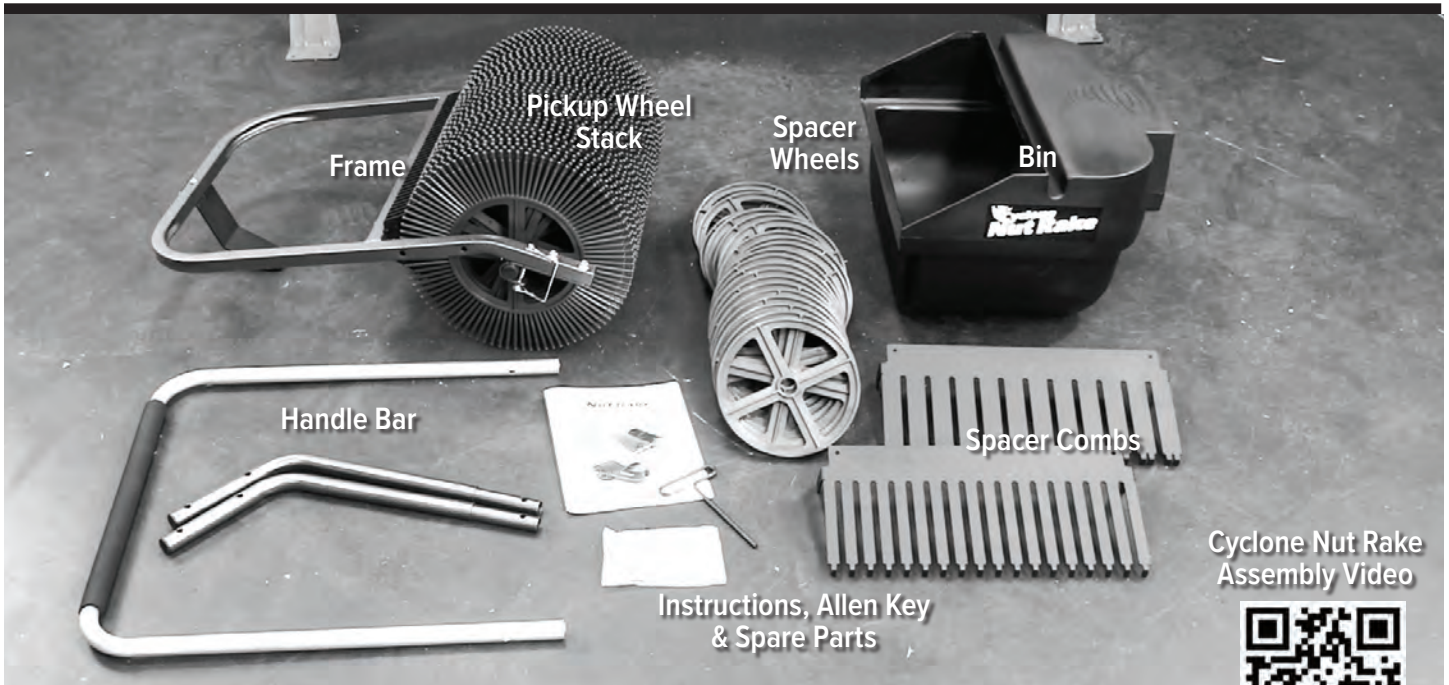
The Cyclone Nut Rake comes from the factory assembled with all wheels and no spacers. So, the default setup is for small nuts that are less than 1" in diameter. While the Cyclone Nut Rake will pick up nuts that are slightly larger than 1" the default configuration, we strongly recommend that you use the spacer setup as outlined below. This will allow the Cyclone Nut Rake to operate more efficiently and will avoid damage to the pickup wheels and the ejector fins.

Please use this handy chart to determine if you should be using the spacers provided.

# OF SPACERS	SIZE RANGE	EXAMPLE
0 Spacers	Small Nuts Up to a 1" diameter	 Small Acorns Small Hazelnuts
1 Spacer (See page 4)	Medium Nuts 1" to 1.5" diameter	 Large Acorns Almonds Hickory Chestnuts Pecans Some Walnuts Sweet Gum Balls
2 Spacers (See page 7)	Large Nuts (and other things) Greater than 1.5" diameter	 Black Walnuts Some Sweet Gum Balls Chestnuts Golf Balls Pinecones



HERE'S WHAT YOU GET



Cyclone Nut Rake
Assembly Video

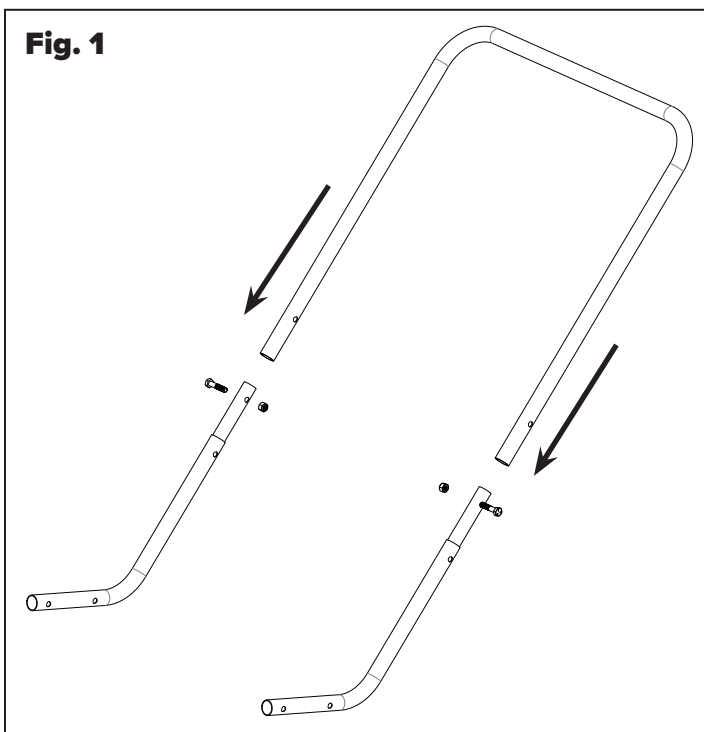


ASSEMBLING YOUR CYCLONE NUT RAKE

The Cyclone Nut Rake Wheel Stack comes pre-assembled to pick up Small Nuts up to 1" diameter with the Nut Rake, just follow these steps to add the handle bar:

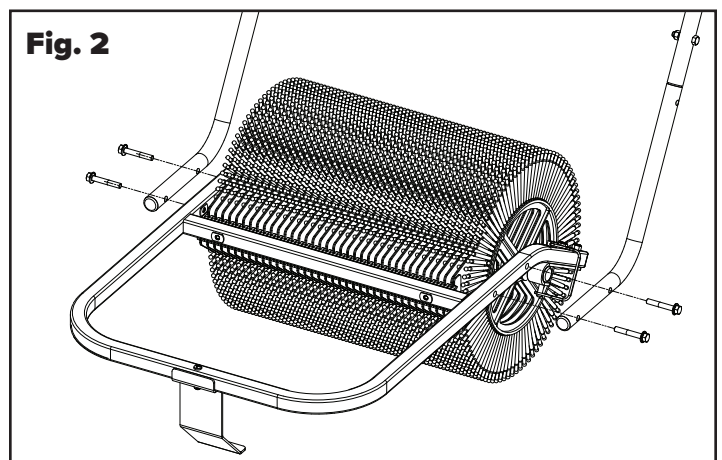
Tools Required: Two 1/2-inch wrenches or sockets. Yup, that's all you need!

1. (Fig. 1) Start by assembling the three pieces of the handlebar using the 5/16-18 x 1½ inch hex bolts and nylon lock nuts.
2. (Fig. 2) Remove the bin from the frame. Attach the handlebar to the frame using the four 5/16-18 x 2-inch flange head screws as shown.



That's it, you're done!

Your Cyclone Nut Rake is completely assembled and ready to use.



ADDING ONE SPACER WHEEL

To pick up Medium Nuts 1" to 1.5" diameter with the Nut Rake, just follow these steps:

Tools Required: Two 7/16-inch wrenches or sockets.
Phillips head screwdriver
Allen Key (supplied)

1. (Fig. 1) Remove the bin and gently turn the Nut Rake frame upside down.
2. (Fig. 2) Unlock and remove the clevis pins from both sides of the frame that hold the axle of the wheel stack in place. Now, slide the entire wheel stack out of the J-hooks, and off the frame.
3. (Fig. 3) On one side of the wheel stack use the two 7/16 inch wrenches to remove the ¼-20 x 1 ¾ inch bolt and the ¼-20 inch nylon lock nut. Then, slide the plastic bushing and the shim off the wheel stack axle.

NOTE: Putting the wheel stack up on a table will help to stabilize the stack and make it easier to handle.

4. (Fig. 4) Now, slide all of the pickup wheels off the axle **except the last one**.
5. Put one spacer wheel on the axle.
6. Next, put a pickup wheel on the axle.
7. (Fig. 5) Repeat until full. Make sure the last pickup wheel is on top.
 - **18 spacer wheels for nuts that are 1" to 1.5"**

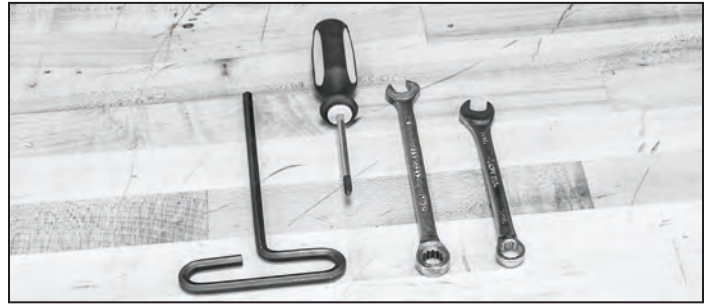


Fig. 1

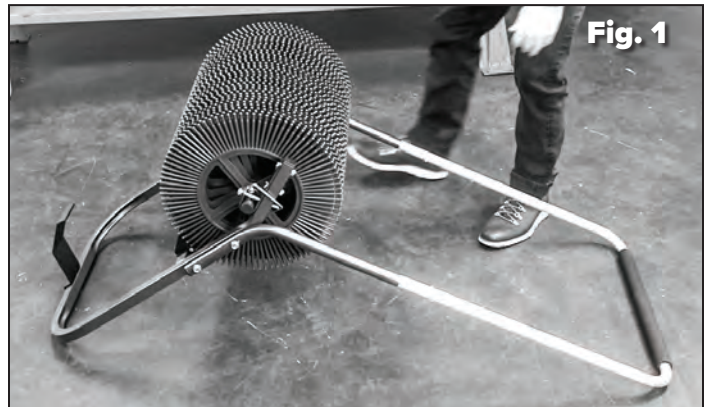


Fig. 2

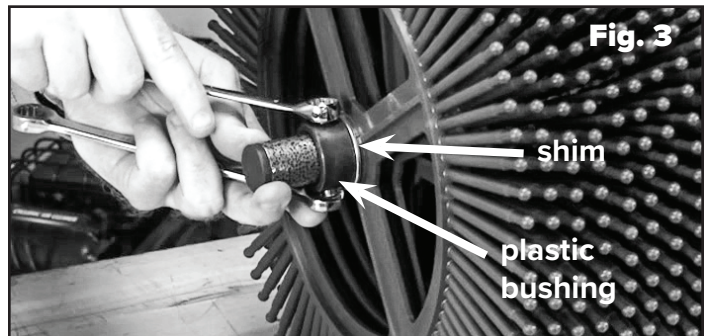


Fig. 3



Fig. 4

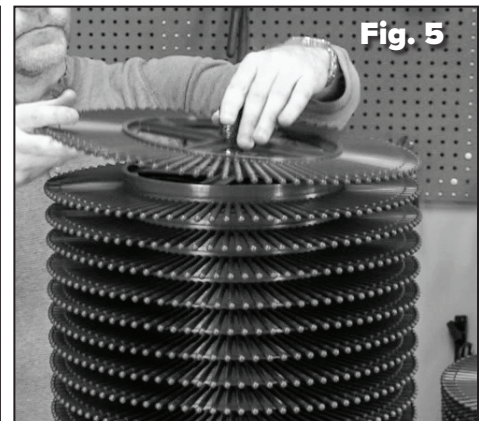


Fig. 5

8. (Fig. 6) Now, replace the shim, the plastic bushing, and the nut and bolt you removed earlier.

NOTE: The pickup wheels should move easily around the axle with a bit of a push. If they are too tight remove the shim. If they spin too freely add another shim. The shim is only needed to compensate the width tolerance in the stack if there is any.



Remove the Ejector Bar Assembly from the Nut Rake Frame:

9. (Fig. 7) Using the supplied Allen Key, unscrew the two 5/16" mounting bolts that are located between the third and fourth fin on each side of Ejector Bar Assembly.

10. (Fig. 8) Place the Ejector Bar Assembly onto a table and remove the End Stoppers by unscrewing the side screws with the Phillips head screw driver.

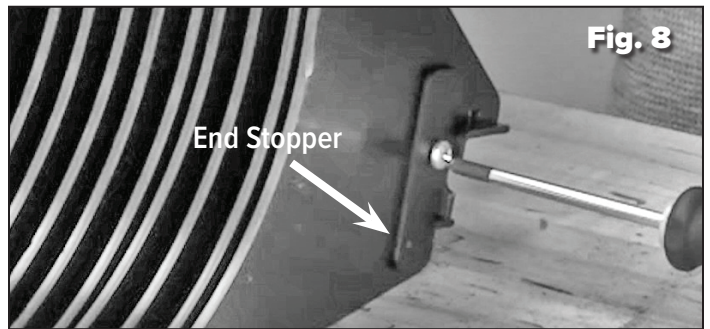
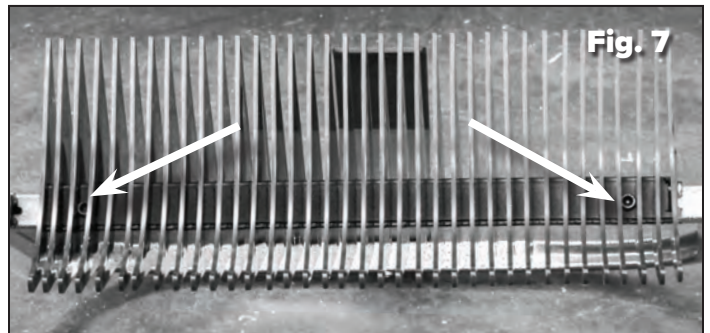
NOTE: Keep End Stoppers in safe place, you will need them if needed to convert Ejector Bar Assembly back to regular spacing.

Install the Spacer Comb onto the Fins:

11. (Fig. 9) Locate the Spacer Comb with the narrow teeth. With the short side of the Ejector Fins on the table and the curved side facing you, slide the Spacer Comb onto the long side of the Ejector Fins. Carefully align Ejector Fins between the teeth of the Spacer Comb and the side tabs for an even fit.

12. (Fig. 10) Make sure everything is aligned. The extractor fins are straight, and the Spacer Comb tips are evenly separated.

13. (Fig. 11) Secure the Spacer Comb in place with the (2) side screws you removed earlier from the End Stoppers.



Reinstall the Extractor Bar Assembly with Spacer Comb back onto the Frame:

- 14.** (Fig. 12) Locate the 2 mounting bolts you removed earlier. With your Nut Rake Frame still upside down, position the Extractor Bar Assembly with the comb-side facing the floor onto the frame. Now, insert the Allen Key into one bolt and while holding the assembly guide it into one of the holes on the frame (between the third or fourth fin) as shown. Loosely secure it. Insert the key into the other bolt and guide it into the other hole. Now you can tighten both screws.

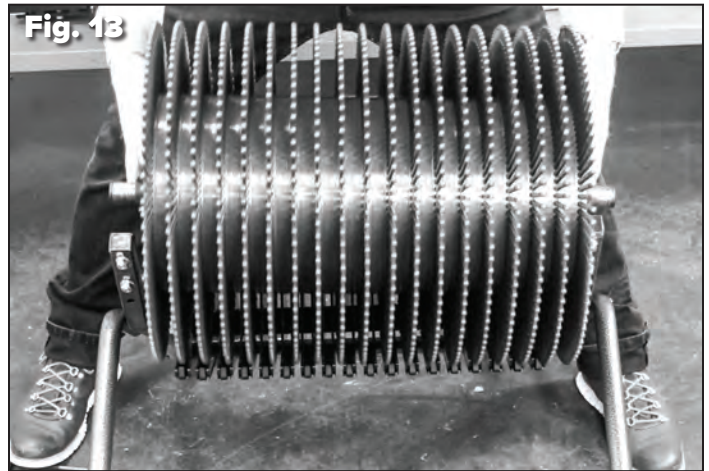
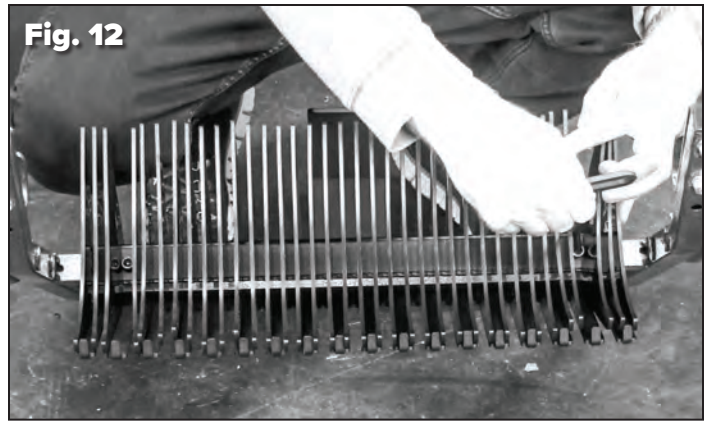
Reinstall the Wheel Stack:

- 15.** (Fig. 13) Hold the Wheel Stack at the axle ends and align it as much as possible with the extractor fins. *Some fins might be slightly off, that's normal we want them to wiggle.*

NOTE: Use a helper to guide the fins in between pickup wheels while slowly lowering the Wheel Stack towards the J-hooks.

- 16.** (Fig. 14) When all the fins are aligned slide the Wheel Stack into the J-hook and replace the clevis pin.
- 17.** (Fig. 15) Now, carefully turn your Nut Rake right side up and place the bin back, making sure the front lip of the bin slides underneath the spacer comb.

That's it, you're done.



ADDING TWO SPACER WHEELS

To pick up nuts larger than 1.5" diameter with the Nut Rake, just follow these steps:

Tools Required: Two 7/16 inch wrenches or sockets.
Phillips head screwdriver
Allen Key (supplied)

1. (Fig. 1) Remove the bin and gently turn the Nut Rake frame upside down.
2. (Fig. 2) Unlock and remove the clevis pins from both sides of the frame that hold the axle of the wheel stack in place. Now, slide the entire wheel stack out of the J-hooks, and off the frame.
3. (Fig. 3) On one side of the wheel stack use the two 7/16 inch wrenches to remove the 1/4-20 x 1 3/4 inch bolt and the 1/4-20 inch nylon lock nut. Then, slide the plastic bushing and the shim off the wheel stack axle.

NOTE: Putting the wheel stack up on a table will help to stabilize the stack and make it easier to handle.

4. (Fig. 4) Now, slide all of the pickup wheels off the axle **except the last one**.
5. Put one spacer wheel on the axle.
6. Next, put a pickup wheel on the axle.
7. (Fig. 5) Repeat until full. Make sure the last pickup wheel is on top.

• **24 spacer wheels for nuts that are larger than 1.5"**

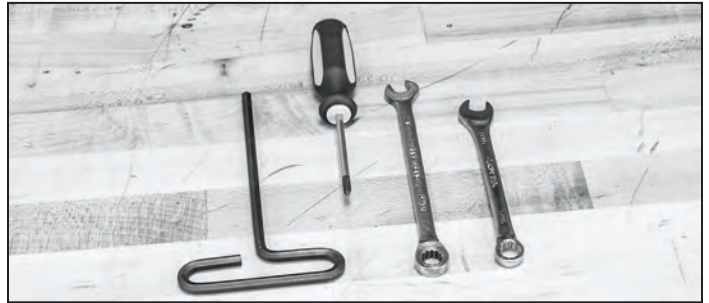


Fig. 1

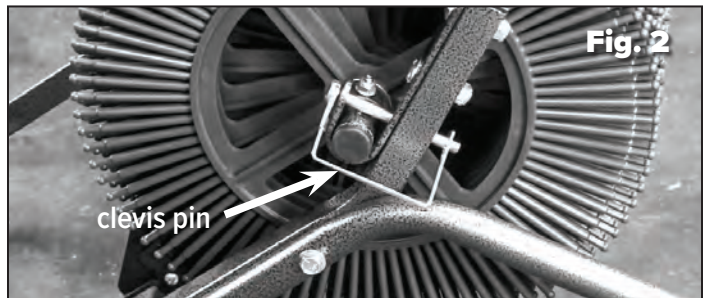
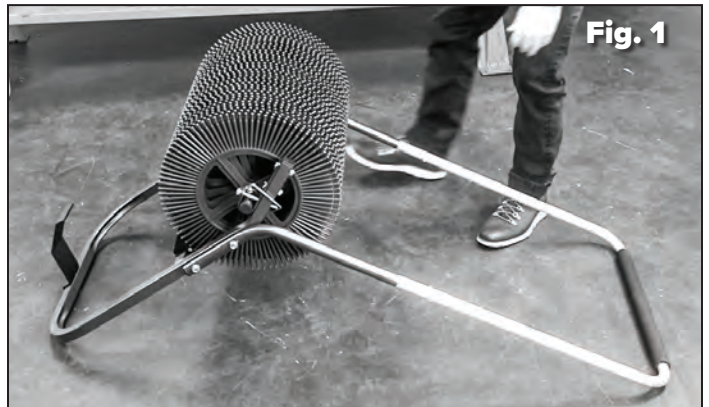


Fig. 2

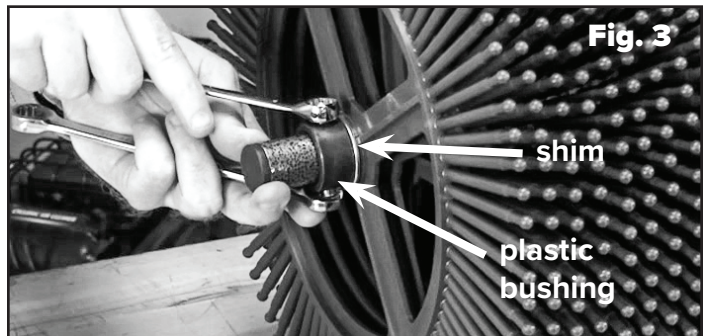


Fig. 3

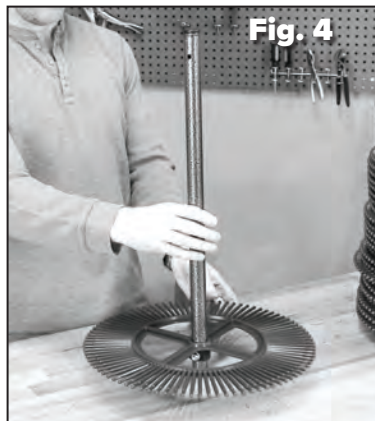


Fig. 4

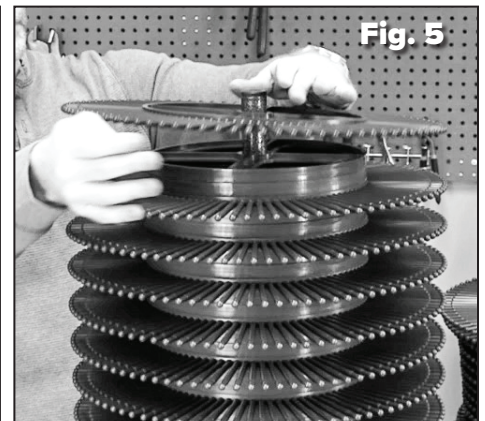


Fig. 5

- 8.** (Fig. 6) Now, replace the shim, the plastic bushing, and the nut and bolt you removed earlier.

NOTE: The pickup wheels should move easily around the axle with a bit of a push. If they are too tight remove the shim. If they spin too freely add another shim. The shim is only needed to compensate the width tolerance in the stack if there is any.



Remove the Ejector Bar Assembly from the Nut Rake Frame:

- 9.** (Fig. 7) Using the supplied Allen Key, unscrew the two 5/16" mounting bolts that are located between the third and fourth fin on each side of Ejector Bar Assembly.

- 10.** (Fig. 8) Place the Ejector Bar Assembly onto a table and remove the End Stoppers by unscrewing the side screws with the Phillips head screw driver.

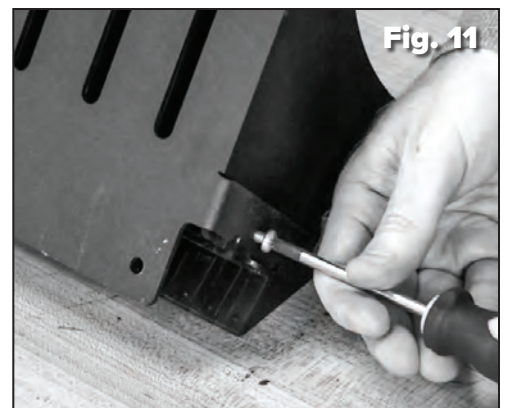
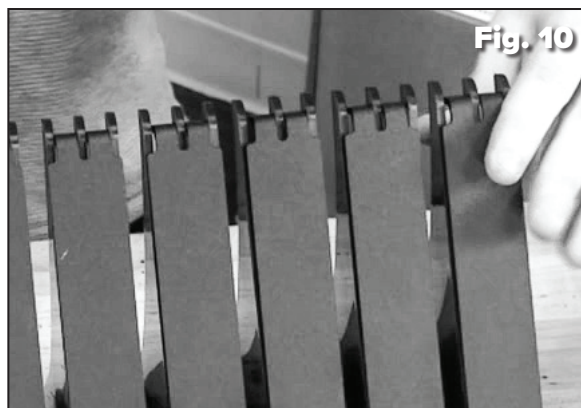
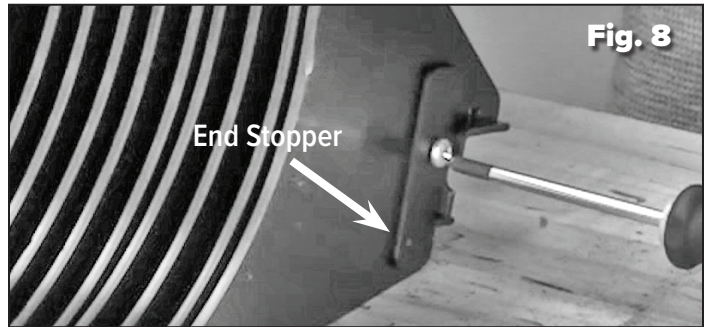
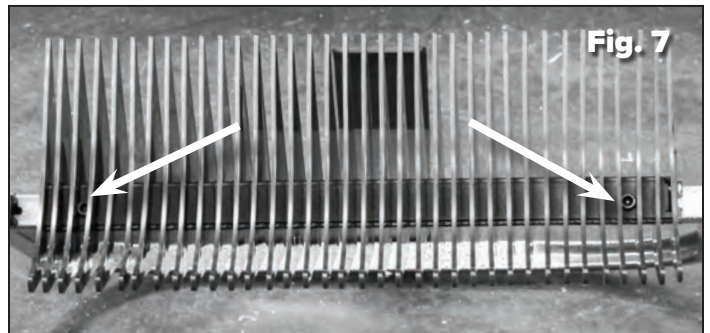
NOTE: Keep End Stoppers in safe place, you will need them if needed to convert Ejector Bar Assembly back to regular spacing.

Install the Spacer Comb onto the Fins:

- 11.** (Fig. 9) Locate the Spacer Comb with the wide teeth. With the short side of the Ejector Fins on the table and the curved side facing you, slide the Spacer Comb onto the long side of the Ejector Fins. Carefully align Ejector Fins between the teeth of the Spacer Comb and the side tabs for an even fit.

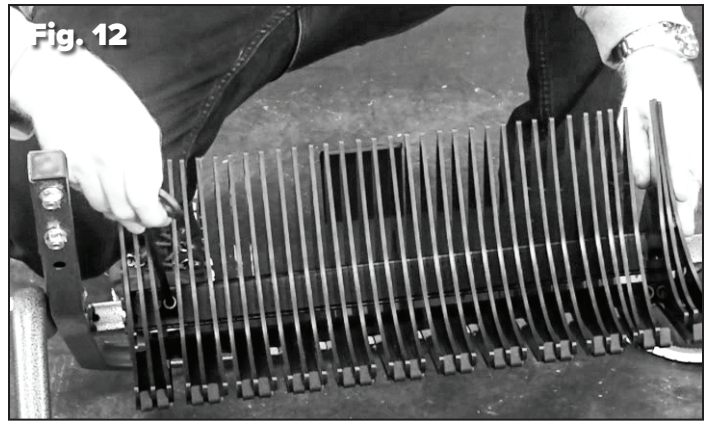
- 12.** (Fig. 10) Make sure everything is aligned. The extractor fins are straight, and the Spacer Comb tips are evenly separated in the comb.

- 13.** (Fig. 11) Secure the Spacer Comb in place with the (2) side screws you removed earlier from the End Stoppers.



Reinstall the Extractor Bar Assembly with Spacer Comb back onto the Frame:

14. (Fig. 12) Locate the 2 mounting bolts you removed earlier. With your Nut Rake Frame still upside down, position the Extractor Bar Assembly with the comb-side facing the floor on the frame. Now, insert the Allen Key into one bolt and while holding the assembly guide it into one of the holes on the frame (between the third or fourth fin) as shown. Loosely secure it. Insert the key into the other bolt and guide it into the other hole. **Now you can tighten both screws.**



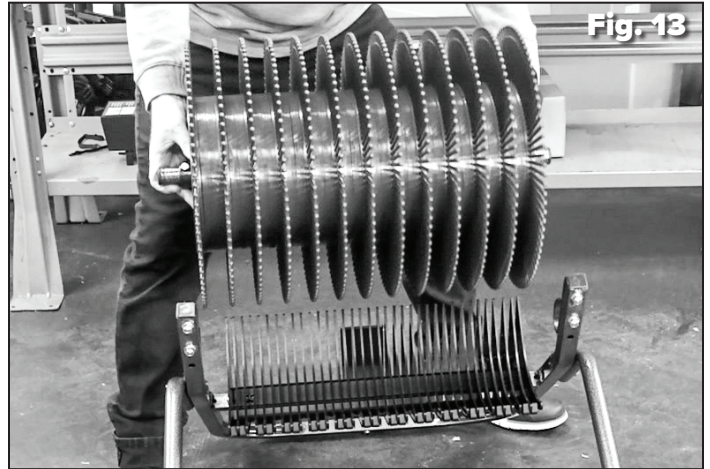
Reinstall the Wheel Stack:

15. (Fig. 13) Hold the Wheel Stack at the axle ends and align it as much as possible with the extractor fins. *Some fins might be slightly off, that's normal we want them to wiggle.*

NOTE: Use a helper to guide the fins in between pickup wheels while slowly lowering the Wheel Stack towards the J-hooks.

16. (Fig. 14) When all the fins are aligned slide the Wheel Stack into the J-hook and replace the clevis pin.

17. (Fig. 15) Now, carefully turn your Nut Rake right side up and place the bin back, making sure the front lip of the bin slides underneath the spacer comb.



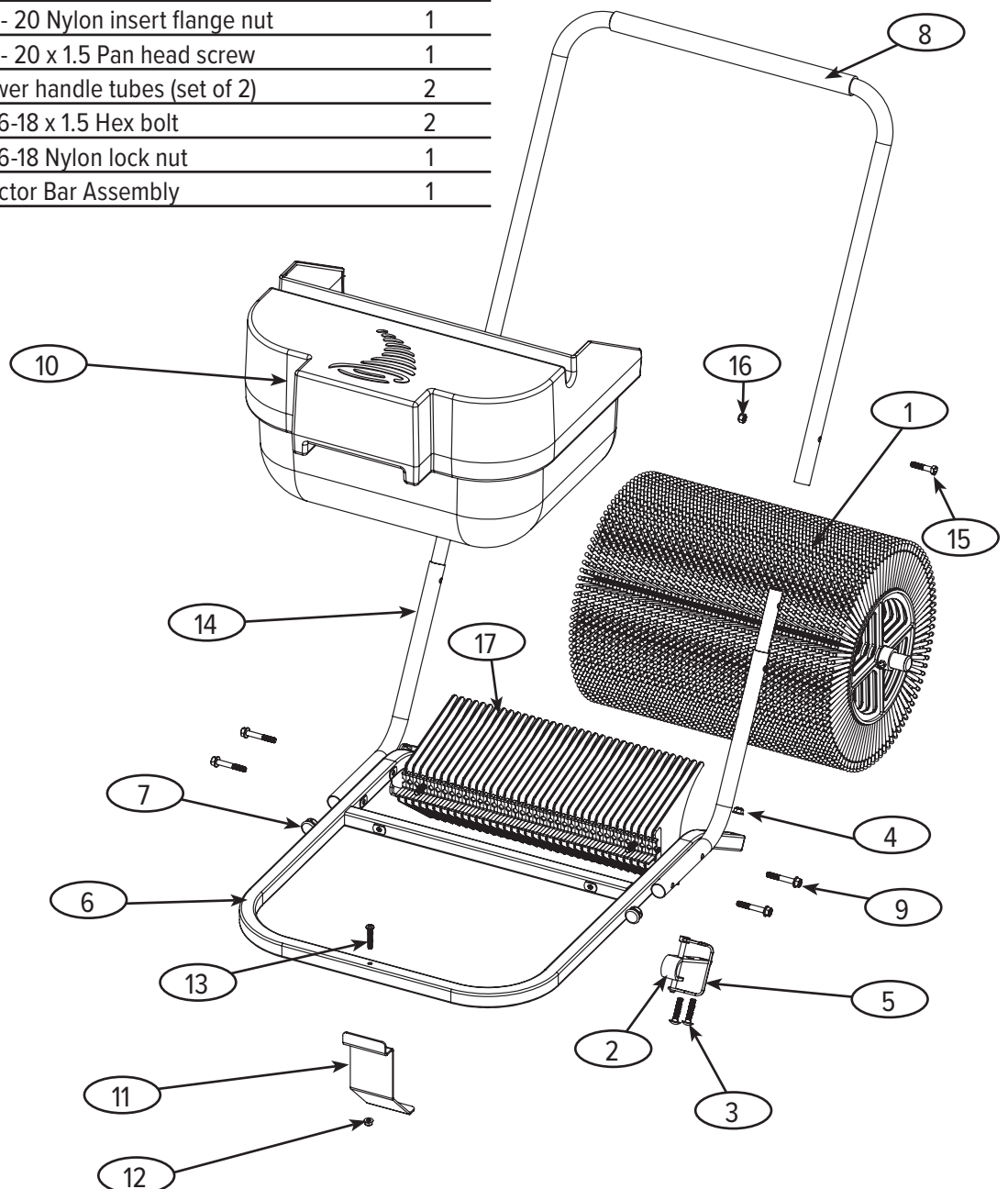
That's it, you're done.



PARTS FOR THE WALK BEHIND NUT RAKE

COMPONENT LIST

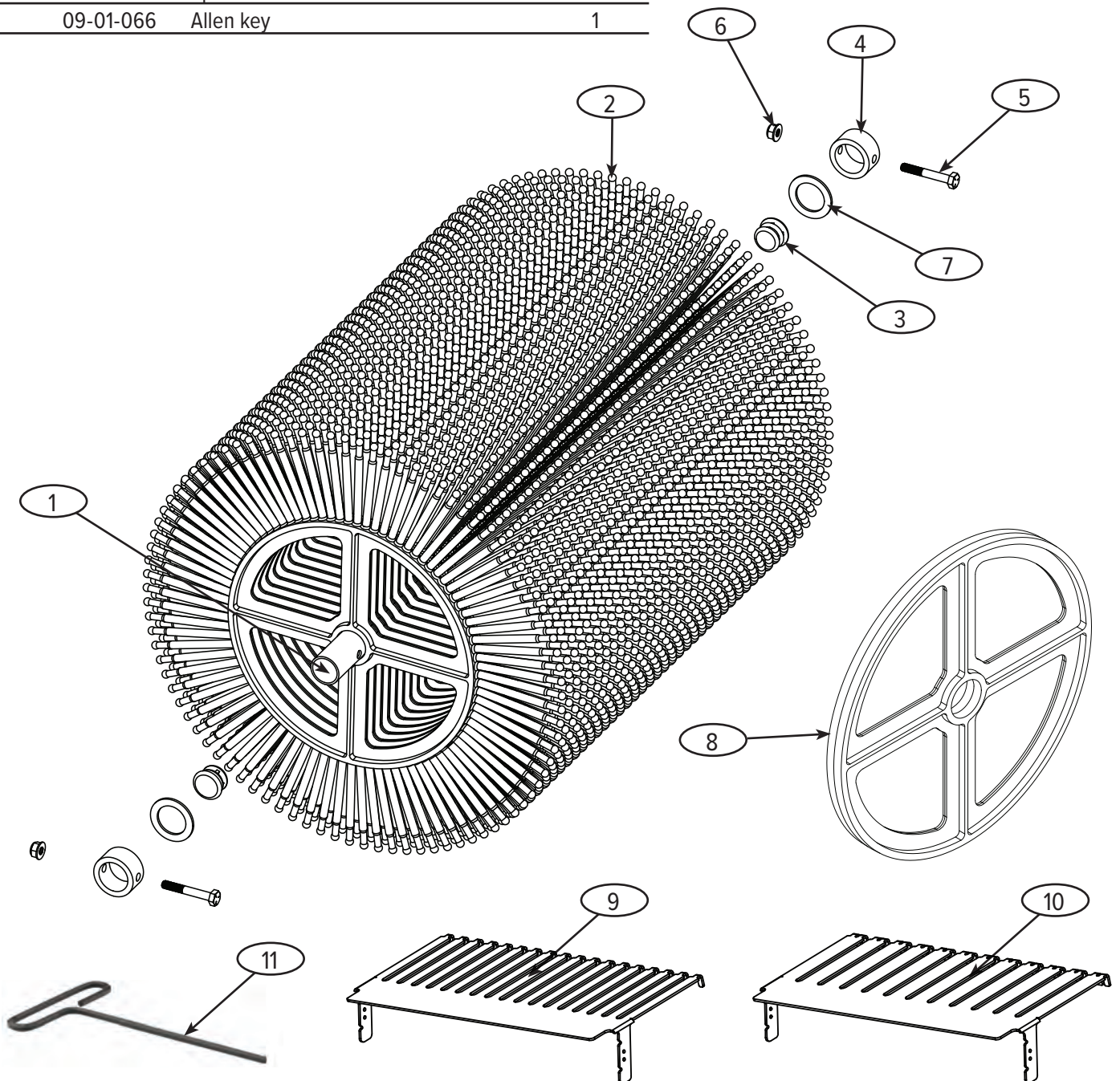
Key NO.	PART NO.	NAME	QTY
1	09-03-004	Wheel Stack Assembly	1
2	09-01-017	J-hook	2
3	07-01-075	5/16 - 18 x 1.5 Carriage bolt	4
4	07-01-151	5/16-18 Nylon insert flange nut	4
5	09-01-018	Clevis pin with wire lock	2
6	09-03-011	Chassis with cap plugs	1
7	09-01-014	1" round finishing plug	1
8	09-02-009	Handle with grip	1
9	09-01-029	5/16 -18 x 2 Flange head screw	4
10	09-01-005	Collector bin	1
11	09-01-045	Kickstand	1
12	07-01-137	1/4 - 20 Nylon insert flange nut	1
13	09-01-046	1/4 - 20 x 1.5 Pan head screw	1
14	09-03-014	Lower handle tubes (set of 2)	2
15	01-01-170	5/16-18 x 1.5 Hex bolt	2
16	01-01-151	5/16-18 Nylon lock nut	1
17	09-02-059	Ejector Bar Assembly	1



PARTS FOR THE NUT RAKE - WHEEL STACK

COMPONENT LIST

Key NO.	PART NO.	NAME	QTY
1	09-02-008	Shaft Tube Assembly	1
2	09-01-002	Pick-up wheel	37
3	09-01-014	1" Round tube finishing plug	2
4	09-01-024	Spacer bushing	2
5	07-01-476	1/4 - 20 x 1.75 Hex bolt	2
6	07-01-137	1/4 - 20 Nylon insert flange nut	2
7	09-01-057	Axle shim	2
8	09-01-004	Spacer wheel	24
9	09-01-064	Spacer comb 1x	1
10	09-01-065	Spacer comb 2x	1
11	09-01-066	Allen key	1



TIPS & TRICKS

Now that your Cyclone Nut Rake is completely assembled, you're ready to start collecting! Here are a few tips and tricks to make sure your nut gathering goes as smoothly as possible:

- To gather the most nuts in one go with the Tow Behind you should drive your mower at a speed that's the equivalent of a swift walk forward. If you drive too quickly the nuts may be popped a bit farther than the collector bin. With the Walk Behind model, just walk normally! A comfortable walking pace will be perfect.
- If your property is a bit uneven or you have divots in your lawn where the nuts can hide, you may just find you have to go over the nuts from more than one angle. If the pickup wheels can't reach the nuts from one angle, try another and you'll be all set.
- The best time to go out and collect the nuts off your property is shortly after they fall. If nuts are left to sit on your property, they're more likely break up. Fragments of nuts, and their shells, are a bit harder to pick up than a whole nut is as it gives the pickup wheels less to grab onto.
- If there's a heavy, dense layer of leaves covering the nuts, they may have a hard time reaching the pickup wheels. The wheels can reach through a certain level of leaves and other debris if the nuts aren't very deeply buried.
- One last thing to keep in mind is if you're collecting nuts and other things from a hard surface, like driveways, parking lots etc., the Cyclone Nut Rake may just be a bit squirrely (pun intended). Because concrete, pavement, and packed in dirt doesn't have as much give as grass does your Nut Rake may be a bit wobbly looking but will still collect the debris without trouble!

You're ready! Go out there and make all the squirrels on your property jealous with how many nuts you're able to collect!