

TRINITY OSCILLATING PAD SYSTEMS

Trinity Series Owner's Manual





The bristles on your new pad driver have <u>NOT</u> been ground down.

BEFORE INITIAL USE, please run your machine on broom/brush finished concrete (such as a sidewalk) for 15-20 minutes.

Failure to do so could result in damage to carpet and pads.



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Warranty Information

This Trinity OP Systems, LLC Industrial/Commercial Product is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of purchase, for parts and labor, when operated and maintained in accordance with Trinity OP Systems International Incorporated Maintenance and Operations Instructions.

This limited warranty does NOT cover modified parts or parts that have been altered, defaced, or removed. Also, it does not apply to repairs or replacement necessitated by any cause beyond the control of TOPS including, but not limited to, any malfunction, defects or failures which in the opinion of TOPS are caused by, or resulting from, unauthorized service or parts, improper maintenance operation contrary to furnished instructions, shipping or modification or faulty repair by the user, abuse, misuse, neglect, being dropped or normal wear and tear. This warranty is invalid if the factory applied serial number has been altered in any way or removed.

THIS WARRANTY IS EXTENDED ONLY TO THE ORIGINAL PURCHASER OF THE PRODUCT. It does not cover normal wear and tear on parts such as, electrical cables, rubber parts, hoses, wheels, and bearings (see extensive list of covered items below). A MAXIMUM OF 30 DAYS FROM DATE OF DELIVERY is allowed for any machine to be returned or refunded.

Trinity OP Systems will not be responsible for any shipping fees incurred.

Trinity OP Systems liability under this warranty is limited to repair of the product and/or replacement of parts and is given to the purchaser in lieu of all other remedies, including INCIDENTAL AND CONSEQUENTIAL DAMAGES as per the warranty terms stated above.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SPECIFIED HEREIN. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. NO WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANT ABILITY, SHALL BE IMPLIED.

1 year on parts and labor

- Complete Trinity Frame
- Handle Assembly
- Handle Release Lever
- Levers
- Motor Plate
- Switches
- Wheel Bearings
- Counter Balance
- Bell
- Spray Pump
- Electrical Plugs
- Pad Driver
- Bearing Housing

2 Year Parts Only

- Complete Trinity Frame
- Motor
- Counter Balance

3 Year Parts Only

- Complete Trinity Frame
- Motor

If you encounter a problem with your machine please contact: info@trinityopsystems.com (859)744-5332

Safety Precautions

Basic safety precautions must be followed to prevent injury to self or the machine.

Failure to use the machine properly will void the warranty and exclude Trinity OP Systems, LLC of <u>ALL</u> liability if carpet/floor is damaged while using one of our machines. <u>Please read ALL instructions carefully before using the machine.</u>

To reduce the risk of electrocution, shock or bodily injury, please read and follow these directions:

- DANGER means severe bodily injury or death can occur to you or other
 personnel if these safety precautions are ignored or not followed. Read and
 observe all DANGER statements found in this Owner's Manual and on your
 machine.
- WARNING means injury could occur to you or to other personnel if the WARNING statement found on your machine or in this Owner's Manual are ignored or are not adhered to. Read and observe all WARNING statements found in this manual and on your machine.
- CAUTION means damage can occur to the machine or other property if the CAUTION statements found on your machine or in this Owner's Manual are ignored.
- Failure to read the Owner's Manual prior to operating or attempting any service or maintenance procedure to your machine could result in injury to your, to other personnel, damage to the machine, or other property, as well as voiding your warranty.
- To reduce the risk of fire, use only commercially available carpet products intended for machine application.
- Risk of explosion: Floor sanding can result in an explosive mixture of fine dust and air. To reduce risk of explosion, use as floor sanding machine only in well ventilated area while wearing a protective face mask.

- Do not operate this machine until it is completely assembled. Inspect the machine carefully before operation. Make sure ALL bolts are tight.
- Electrocution could occur if maintenance and repairs are performed on a unit that is not disconnected from the power source. Disconnect the power supply before attempting and maintenance or service.
- POWER CORD: Electrocution may occur if using a machine with a damaged power cord. To prevent damage to the power cord, do not let the brush pad, pad driver or wheels touch the power cord, as this can "chew" the cord and expose wires. Always lift the cord over the machine and never use the electrical cord to move the machine.
- Maintenance and repairs performed by unauthorized personnel could result in damage or injury <u>and will void your warranty.</u>
- Unplug cord of machine if breaker blows or before turning breaker back on to avoid machine turning on unattended.
- Electrical components of this machine can "short-out" if exposed to water
 or moisture. Keep the electrical components of the machine dry. Wipe the
 machine down after each use. Run clear water through to remove any
 debris and store the machine in a dry area. Never expose to rain or
 submerge in water unless attached to a ground fault switch nearby.
- Do not use this machine on steps or furniture since it could result in injury or damage. Please call to inquire about our step/upholstery machines.
- Keep pad driver clean and cleared of debris buildup or the pad driver may not hold the pads under the machine properly.
- Do not ride on this machine.
- Remove or blow dust and dirt off the motor frequently. DO NOT SPRAY
 MOTOR WITH A PRESSURE WASHER OR WATER HOSE! Use a damp cloth
 with a mild cleaning solution to clean machine and motor.

- Unplug machine before cleaning or servicing.
- To avoid injury keep hands, feet and loose clothing away from all moving parts of machine.
- Water solutions or cleaning materials used with this type of machine can leave wet areas on the floor surface. These wet areas can cause a dangerous condition for the operator or other persons if they walk on the wet surface.
 ALWAYS put CAUTION signs near the area being cleaned.
- Keep nuts and bolts tight on your machine. If you hear or feel
 rattling/vibration examine all bolts and be sure they are tight. Loose bolts
 on an oscillating machine can cause premature and undue wear and tear.
- If you have an attached spray system on your machine, run water through the pump daily to keep system and pump clean. **DO NOT** run any harsh chemicals or any product containing Citric Acid through your spray system as it can ruin your pump and/or hoses (ex. anomaly).

*If you have any questions or concerns about anything not listed in these precautions please call TOPS office at 859-744-5332.

IF WE DETERMINE THAT YOUR MACHINE HAS BEEN DROPPED OR ABUSED IN ANY WAY THE WARRANTY IS IMMEDIATELY VOIDED

***IF THE MACHINE IS MODIFIED IN ANY WAY THE WARRANTY WILL

BE IMMEDIATELY VOIDED***

Set up your new machine

IMPORTANT!!

As soon as your new machine arrives, please inspect for any damages that may have occurred during shipping or delivery. Make sure the shipping box is in good condition and free of gouges and big dents. Once you have determined there were no freight issues, you will need to do a few simple set up measures, BEFORE USING YOUR MACHINE, to ensure maximum efficiency and quality cleaning for you and your crew.

STEP #1 - YOU MUST PREP YOUR PAD DRIVER:

Your Trinity machine arrived with a red pad driver that holds your pads in place. The pad driver bristles need to be ground down approximately 1/8" to "rough them up". This allows a stronger grip and will hold pads on the driver better. Do the following steps on a <u>rough surface like a concrete sidewalk or driveway</u> - (**NOT** smooth garage or wood floors.)

- Remove machine from shipping crate and all packing wrap.
- Turn machine on.
- Run machine for approximately 15-20 minutes on a brushed concrete surface until the red pad driver ends are frayed.

STEP #2 - PRIME YOUR SPRAY PUMP AND ADJUST SPRAYER

Push the spray lever in to see if your spray jets are releasing a full stream. If yes, do nothing. If no, at the right hand of the machine at the pump is the quick connect. Push in the blue ring and pull out the tubing. Squeeze the handle until liquid comes out. Reconnect hose and carry on, your pump is primed. If you notice your jets are not spraying out far enough ahead or too far for your specific needs you can manually adjust the spray systems a bit by **gently** bending the bracket to the desired position as needed.

STEP #3 - MACHINES WITH INVERTERS

- 1. Plug in your Trinity.
- 2. With the inverter set on 50, turn your Trinity machine on FIRST.
- 3. Next, turn on inverter and slowly turn up to desired speed. Average speed is between 50-80 depending on personal preference and the job. See page 11 for more details on inverter usage.

Changing Speeds

For machines normal cleaning is Speed 3. You should not need to change machine speeds unless cleaning an area with an outdated electric system or fuses. Always plug into the kitchen, bathroom, or laundry room.

Directions for Changing Speeds

The action of your Trinity is set by which holes you use to attach your different heads to the counterbalance.

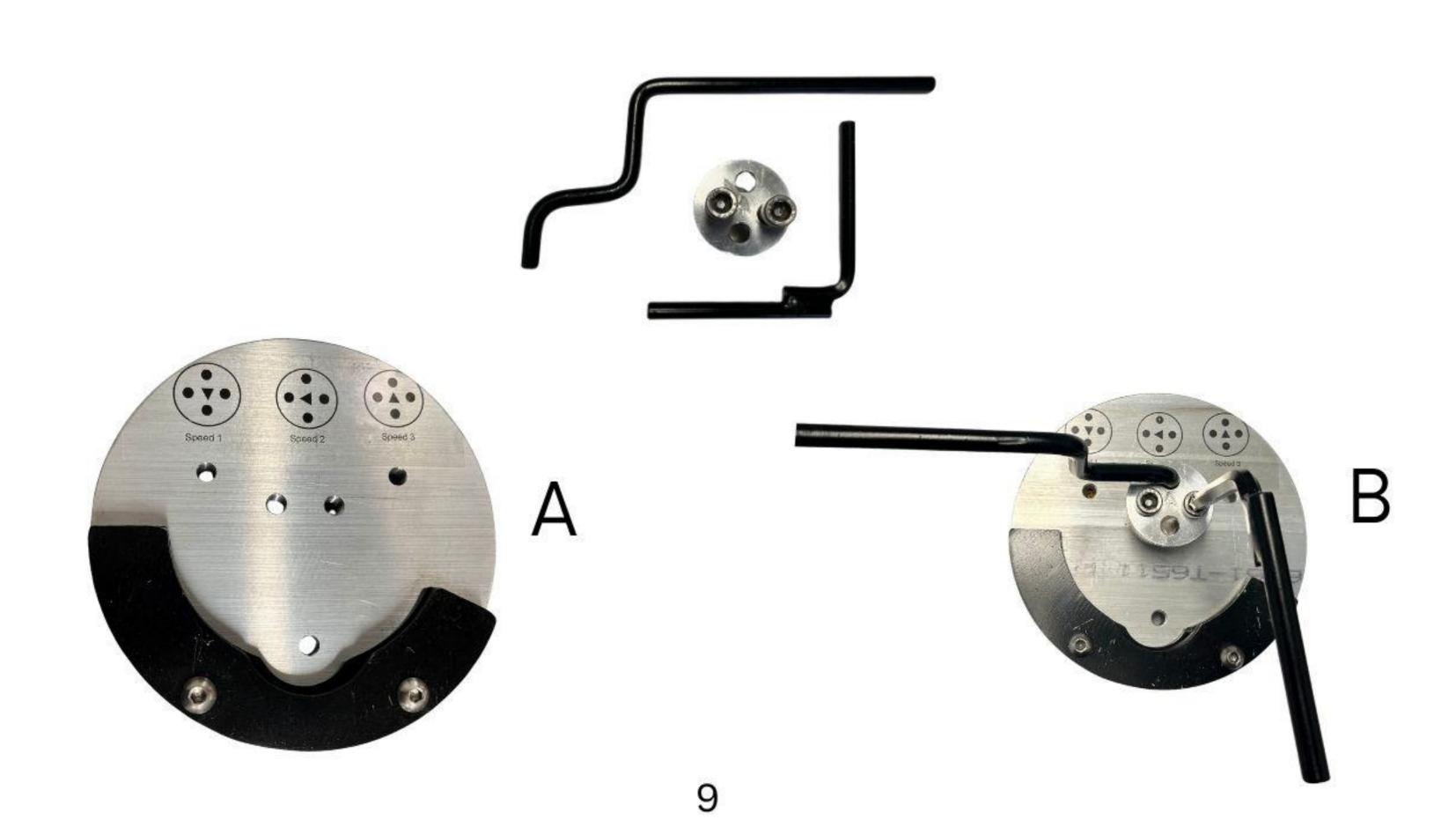
On the counterbalance is a diagram of which way the black arrow on the center plug must be positioned to run at the desired action.

With the black arrow on the right, you are in **Speed 1**. With the black strip down, you are in **Speed 2**.

With the black arrow on the left, you are in **Speed 3**. <u>Speed 3 is used for normal cleaning.</u>

To attach your brush or any head, use the handy head tool with the allen tool to hold the center plug as you insert and tighten the two 3/8 bolts into your counter balance (Pic A)

Put the head tool into one of the holes of the center plug, place the two bolts by hand and start tightening, then use the allen tool to finish tightening (Pic B)

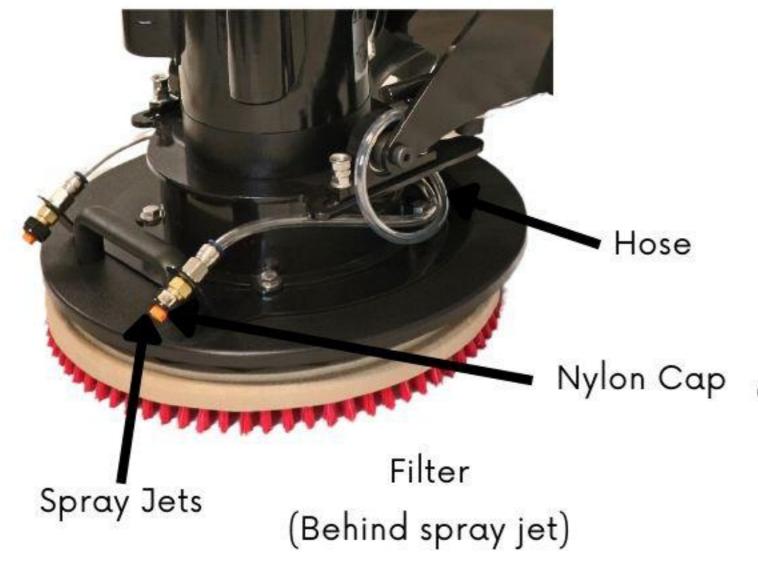


Spray System

When your machine arrives (after your pad driver has ground down) it should be ready to clean as soon as you put chemical in the jug. The Trinity machine is a "walk and go" machine. You simply walk and push the spray button at the same time. The Trinity will easily clean in one pass unless it is a VERY high traffic area or an extremely greasy or heavily soiled carpet. If, for some reason, liquid is not coming out, or barely coming out, when you push the spray button, you will need to prime your pump.

See instructions below

If you have owned your machine for some time and notice the liquid is coming out in a trickle instead of a spray, your filters probably need cleaning. Simply unscrew and remove the nylon caps and spray jets to get to the filters (one filter behind each spray jet). Use an old toothbrush or toothpick to **gently** scrub and remove any attached debris and you should be good to go.



Do you need to prime your pump?

Shipping, travel, or infrequent use can cause pressure to build in the spray system. This is an easy fix. At the right hand of the machine at the pump is the quick connect. Push in the blue ring and pull out the tubing. Squeeze the handle until liquid comes out. Reconnect hose an your pump is primed

SPRAY ASSEMBLY MAINTENANCE

To maintain the life of your pump/spray system, run clear water through your system at the end of each work day to wash out residue/chemical to keep your pump and hoses clean and free of debris.

DO NOT RUN ANY cleaning products through the pump or any product containing citric acid (ex. Anomaly, sold by TOPS). These products will ruin your pump and damage the hoses.

DOING SO WILL VOID YOUR WARRANTY

<u>Inverter</u>

START UP:

If your machine comes with an inverter, before starting your Trinity machine for the first time, you will need to be sure the inverter box is set to low (around 50) before you even turn your machine on.

- Turn on the Trinity machine FIRST
- Turn on the inverter SECOND
- Slowly increase the inverter speed until at desired level THIRD (50-80 is average starting range but increase as needed depending on job).

TURN OFF INVERTER:

- Turn speed down low (approximately 50)
- Turn off Trinity machine.

WARNING!!

NEVER OPEN THE INVERTER BOX FOR ANY REASON! DOING SO WILL VOID YOUR WARRANTY!

Genesis KBAC Series Inverter



Power Status Button

Green - running fine

Red - Problem

**If your button is red, turn down speed. It may be running too aggressive or too quickly.

Back the machine down until button turns

green again**

Speed Control

Controls the speed at which the motor turns.

Momentary On/Off

Machine will not start unless this is on

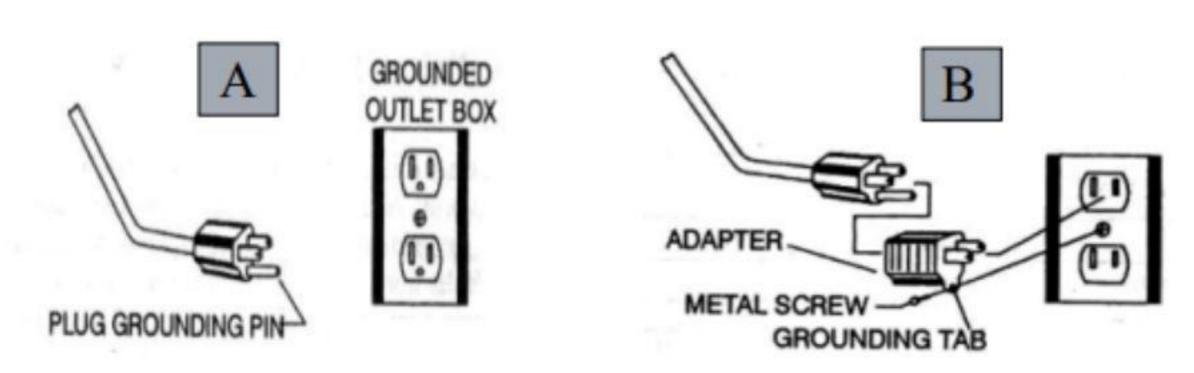
<u>Grounding Instructions</u>



This machine MUST be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. Your machine is equipped with a cord having equipment appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING: Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with your machine - if it does not fit the outlet, have a proper outlet installed by a qualified electrician.

WARRANTY IS VOIDED BY REMOVAL OF GROUNDING PIN



Your machine is for use on a nominal 110-volt circuit, and has a grounded plug that looks like the plug illustrated in **sketch A** above. A temporary adapter that looks like the adapter illustrated in **sketch B** may be used to connect this plug to a 2-pole receptacle as shown in **sketch B** if a properly grounded receptacle is not available. The temporary adapter should be used only until a properly grounded outlet sketch A can be installed by a qualified electrician. The green colored ear, lug, or the like extending from the adapter must be connected to a permanent ground, such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a metal screw.

NOTE: In Canada, the use of a temporary adapter is not permitted by the Canadian Electrical Code.

Extension Cord Usage Chart										
	To	tal E	xte	nsior	Cor	d Le	ngth	(Feet)		
Rating-Amps	Ton Monato LT	Tel Tel series	The state of the s	An internal State of the last	The second secon	150		The second second second		
0-10.0	18	18	16	16	14	14	12	12		
10.1-13.0	16	16	14	14	14	12	12	12		
13.1-15.0	12	12	12	12	12	12	12	-		

Machine Specifications



Phoenix MX

Power Cord: 14/3 50'

Motor Size: 1 HP Industrial

RPM: 1725

Machine Weight: 116 lbs.

Head Weight: 69 lbs.

<u>Grumpy</u>

Power Cord: 14/3 50'

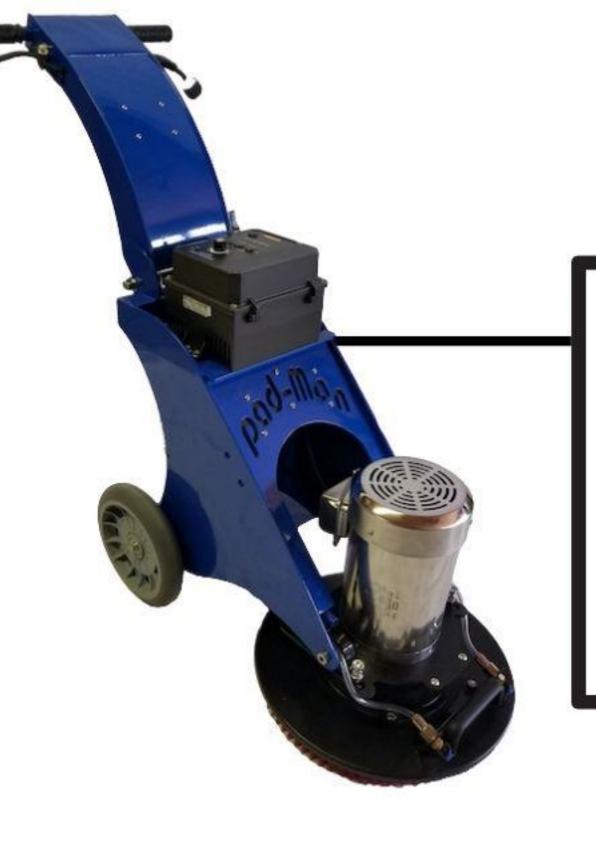
Motor Size: 1 HP Industrial

RPM: 1725

Machine Weight: 133 lbs.

Head Weight: 57 lbs





<u>Padman</u>

Power Cord: 12/3 50'

Motor Size: 11/2 HP Industrial

RPM: Variable up to 3750

Machine Weight: 168 lbs. Head Weight: 84 lbs.



Power Cord: 14/3 50'

Motor Size: 1 HP Industrial

RPM: 1725

Machine Weight: 91 lbs.

Head Weight: 91 lbs.



Power Cord: 14/3 50'

Motor Size: 1 HP Industrial

RPM: 1725

Machine Weight: 106 lbs.

Head Weight: 69 lbs.

<u>Odyssey</u>

Power Cord: 14/3 50'

Motor Size: 1/2 HP Industrial

RPM: 1725

Machine Weight: 69 lbs.

Head Weight: 69 lbs.



Trouble Shooting

SPRAY SYSTEM

Q. Just got machine but water won't come out of spray system?

A. NEED TO PRIME THE PUMP. At the right hand of the machine at the pump is the quick connect. Push in the blue ring and pull out the tubing. Squeeze the handle until liquid comes out. Reconnect hose, your pump is primed.

Q. Only trickle of water OR discolored water coming out of spray system?

A. Remove spray tips and filters, get an old toothbrush and GENTLY scrub any residue off/out of them. Even a toothpick or paper clip can be used to get crusted debris out.

THROWING PADS

Q. Pad driver won't hold pads or is throwing them?

A. Have you ground down your pad driver? How long did you grind it? (see page 6) If yes, is your pad driver full of fibers and debris? If yes, clean it out. If no, is your machine vibrating, making noise or running roughly? If yes, see below.

MACHINE MAKING NOISE, RUNNING ROUGH, OR WITH EXCESSIVE VIBRATION

Q. Machine is making loud noises or running really rough?

A. With machine on, run your hand down the handle and hold the machine where vibration/roughness is. In the area you pinpointed, check all screws/bolts and bearings to be sure everything is tight and nothing is broken or missing. If you still can't pinpoint the issue, grab and feel the pillow block bearings (see page 14). if machine stops making noise or vibrating as you hold them, they are the problem. If not, does the vibration seem to be coming from the pad driver? If yes, is your pad driver bearing assembly close to/over two years old? If yes, is you probably need a new one. If not, check the pad driver to be sure there is no black grease and the bearing is tight in the O-Ring (see page 14). If you are still unable to pinpoint the problem, get as close to the area s possible and take a video of the area with the sound on and email to us.

PAD DRIVER SEEMS LOOSE

Q. Pad driver with red bristles seems to be loose and/or wobbly?

A. First make sure all bolts are tight and bearings are tight in the O-Ring. Next check pad driver bearing to be sure there is no black grease and nothing looks broken or missing. You probably need a new bearing or an entire O-Ring assembly. If you aren't sure, email or text us a video while you move the pad driver around so we can help diagnose the problem (see page 18 for parts).

MACHINE KEEPS BLOWING BREAKERS

Q. Every time I use my machine the breakers/fuses are blowing?

A. Outdated electrical systems and/or fuses are common in older homes and buildings. It is always recommended to plug your machine in a bathroom, kitchen, or laundry room outlet.

General Information

- If your Trinity machine has an attached spray system, <u>NEVER</u> run harsh chemicals, or any chemical containing citric acid, through your pump (ex. TOPS Anomaly) It is very hard on the system and hoses. DOING SO WILL VOID YOUR WARRANTY
- At the end of every work day, run clear water through your spray system to ensure your pump, hoses, and all parts stay clean and clear of dirt, debris, and any leftover chemical.
- on, run your hand down the handle and hold the machine where the problem seems to be coming from. In the area you have pinpointed, check all screws/bolts, bearings, etc. to be sure everything is tight and that nothing is broken or missing. Also, check the pad driver bearing to be sure there is no black grease and that the bearing is tight in the O-Ring. If you are still unable to determine the problem after reading all corresponding topics in this manual, IMMEDIATELY send us a video (with sound) and the camera going completely around the machine showing all parts so we can help determine the problem.

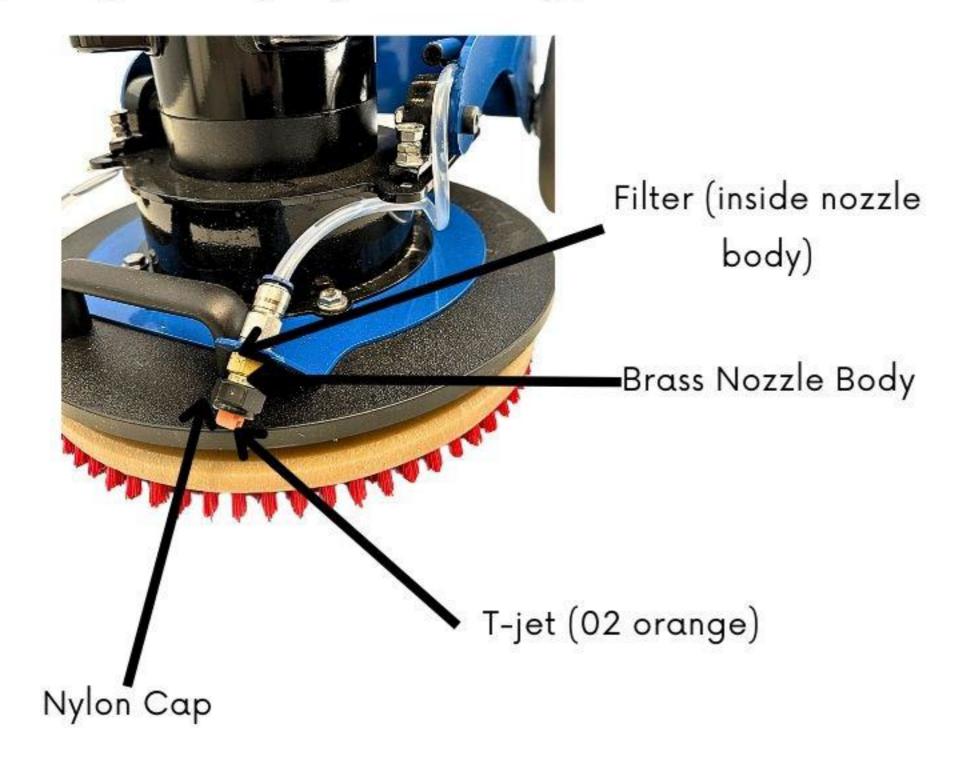
Email the video to info@trinityopsystems.com
with troubleshooting and your name in the subject line
or text to 859-744-5332

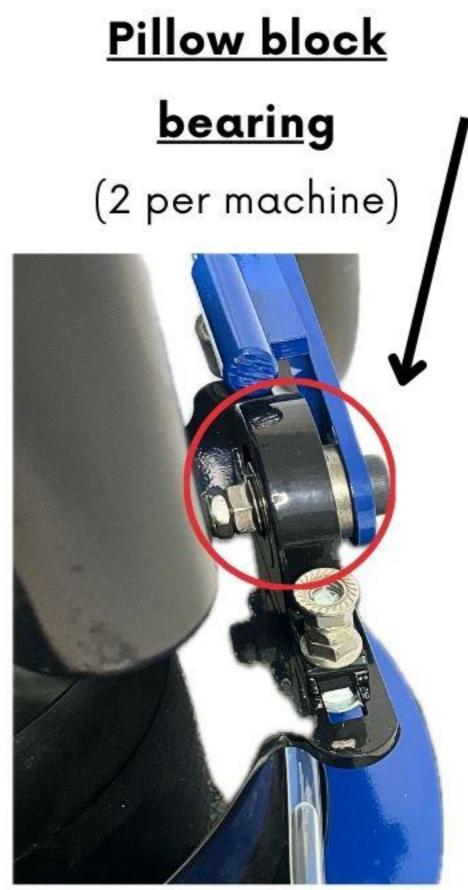
REGULAR MAINTENANCE

- To ensure the life of your machine, tighten nuts and bolts on a regular basis (weekly if you use your machine daily) in the following areas: handle bolts, wheel bearings, motor cover, and your pad driver.
- Keep your red pad driver bristles free of debris to ensure it holds pads well.

Picture Glossary

Complete Spray Assembly

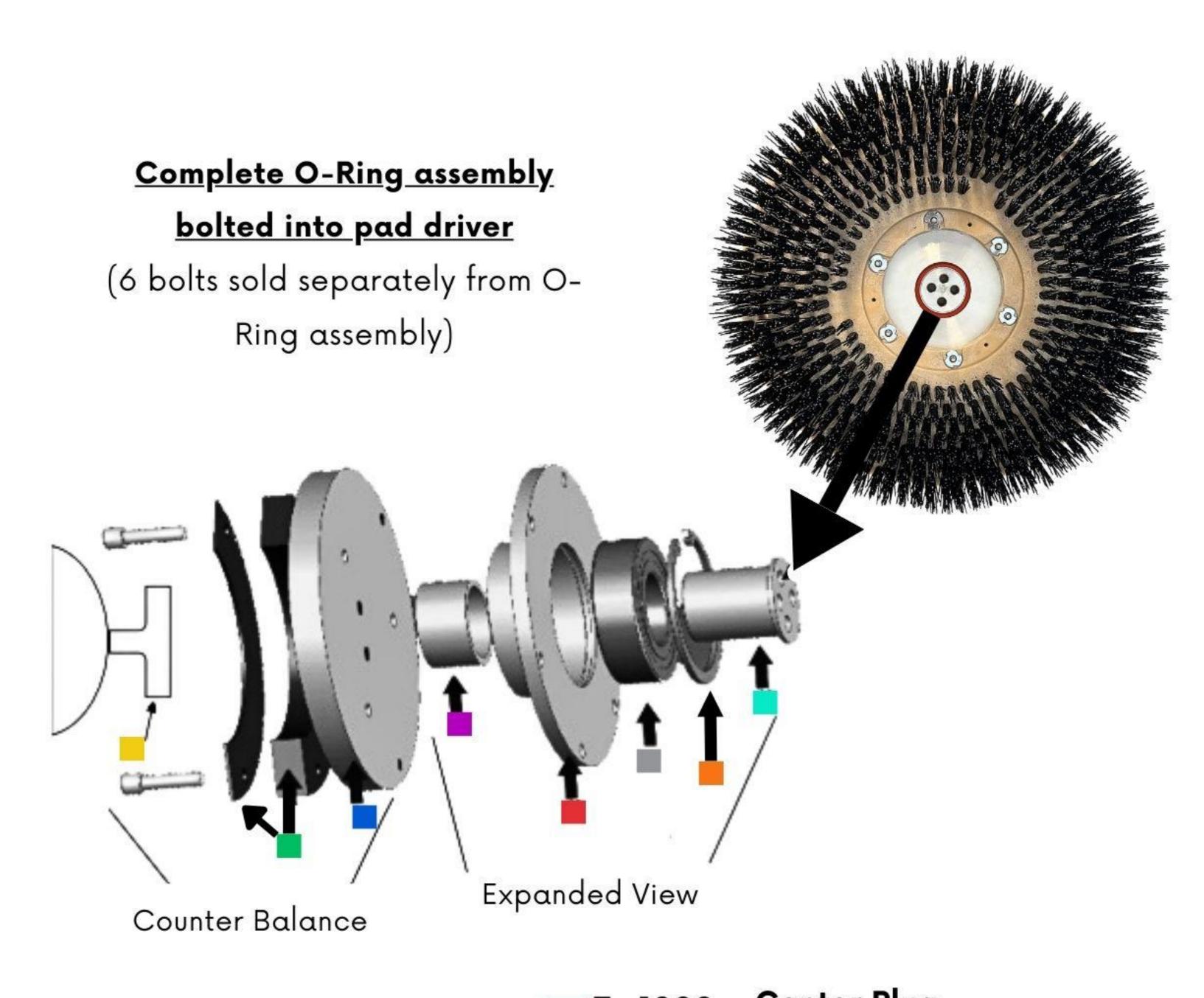




<u>Inverter</u>



Picture Glossary Continued



Bearing/O-Ring Assembly Diagram

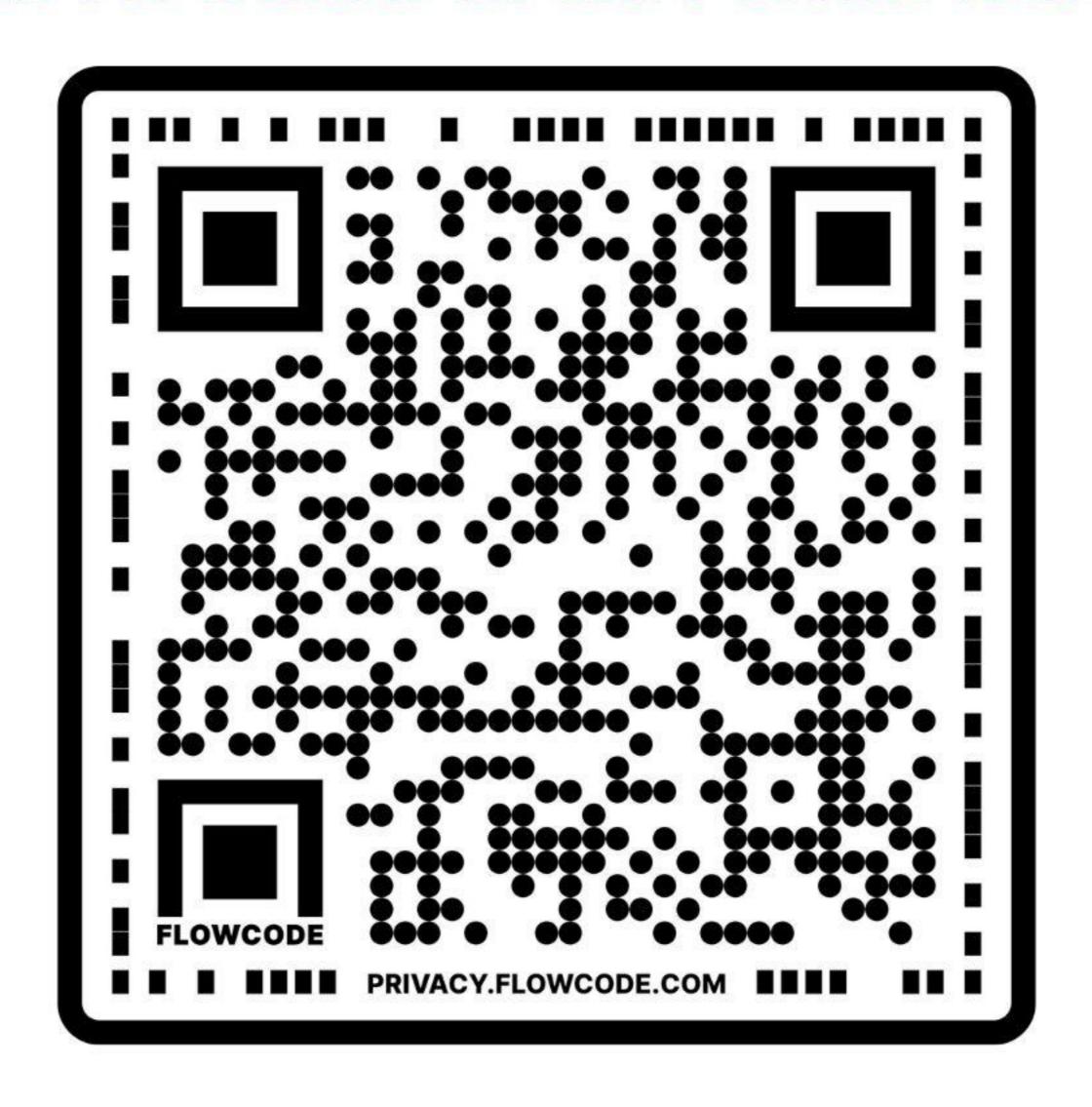
(Middle of Pad Driver)



Thank you from the TOPS team!



Visit Our Website for More Great Products:



Contact Us

Place an order

(859)744-5332

General Info/Questions

(859)744-5332

trinityopsystems.com

Email: info@trinityopsystems.com

Facebook: Trinity Machine Owners

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<u>Trinity OP Systems</u>

233 Industry Pkwy, Ste C Nicholasville, KY 40356

info@trinityopsystems.com www.trinityopsystems.com