



# **TR 575/750/1000 SPRAYMASTER W/ PRO-AIR SYSTEM**

**Service Manual August 2019**



**TR 575/750/1000 SPRAYMASTER W/ PRO AIR**

# Contact Information

## HEADQUARTERS:

**2520 South Campbell Street  
Sandusky, Ohio 44870**

**Phone: 1-800-326-1994**

**Fax: 419-626-5477**

**E-mail: [info@thorworks.com](mailto:info@thorworks.com)**



## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Parts Ordering

### CONTACT INFORMATION:

2520 South Campbell Street  
Sandusky, Ohio 44870  
Phone: 800-326-1994/419-626-4375  
Fax: 419-626-0842  
E-mail: [mikeb@thorworks.com](mailto:mikeb@thorworks.com)

Parts Supervisor: Michael Bechtel

### INFORMATION

Please provide as much of the following if available:

- Customer Name
- Complete Shipping Address
- Attention to:
- Phone Number
- Part Number & Description
- Equipment Model #
- Equipment Serial #
- Shipping Method/Date Required
- PO# (if necessary)
- Quantity & Price
- Kubota Model Number



## **TR 575/750/1000 SPRAYMASTER W/ PRO AIR**

### **Wear Items**

- **Wear items are not covered under ThorWorks limited warranty. A wear item is defined as, but not limited to: material, pump, crack fill-in tips, tires, etc.**
- **Note: All engine warranties are covered through the engine manufacturer. If you need information for the engine manufacturer please contact a Kubota representative.**

### **Parts Warranty**

**ThorWorks warrants parts purchased through ThorWorks for one year from purchase \*\***

**\*\*If the part is found to be within one year of purchase and has not been abused or modified, a credit will be issued to the customer's account or credit card.**

# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

## Return Authorization

- If a part fails to function within the first year of purchase, a **RETURN AUTHORIZATION** number must be obtained.
- Please contact ThorWorks Parts Department to obtain the needed R.A. number.
- Note: If the part has a serial number associated with it, this must be furnished to the parts department and included with the shipped item.
- The customer will then be Emailed or faxed an RA form with all instructions to return the item to ThorWorks.

### ThorWorks Returned Goods Authorization Form

Customer Name _____	Date _____
Address _____	Account _____
_____	Phone Number _____
_____	Fax Number _____
Contact Name _____	
Product Description _____	
Product / Model # _____	Quantity _____
VIN / Serial / Batch _____	Manufactured Date _____
Purchase Date _____	Invoice Number _____
Date of Failure _____	Credit Amount Requested _____
Describe Problem _____	
_____	
_____	
_____	

This form must be received by ThorWorks and evaluated before a returned goods authorization number will be issued. Pictures may be required for review and should be e-mailed to [returns@thorworks.com](mailto:returns@thorworks.com) along with a copy of this form. If your return is authorized, a returned goods authorization number will be e-mailed to you along with the shipping instructions. Please email the completed form to [returns@thorworks.com](mailto:returns@thorworks.com).

#### FOR THORWORKS USE ONLY

Authorization Number _____	Date _____
Call Tag Issued (Y/N) _____	Pictures Required (Y/N) _____
Method of Shipping _____	Field Destroy (Y/N) _____
Contact Person _____	
Received by _____	Date Received _____
Item Number _____	Batch _____
Quantity _____	Date Code _____
	Restock Fee (Y/N) _____
<input type="checkbox"/> Sealer Department	Approved By _____
<input type="checkbox"/> Color Department	Restock Charge _____
<input type="checkbox"/> Stock Room	Customer Credit _____
<input type="checkbox"/> Other	Vendor Credit _____
<input type="checkbox"/> Return to Vendor	Date _____

Rev 2016-12

Located in Appendix

## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

### Return Parts

- The same procedure should be followed if a customer has purchased a part but it is no longer needed.
- If the part is returned within 30 days of purchase, no restocking fee is applied.
- If a part is returned after 30 days of purchase, a 15% restocking fee will be charged.

**Note:** Kits are sold as a whole, you may not return unused parts out of a kit for credit.





## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Technical Assistance

## Contact Information:

2520 South Campbell Street  
Sandusky, Ohio 44870

Phone: 1-800-326-1994

Fax: 419-626-5477

E-mail: [info@thorworks.com](mailto:info@thorworks.com)

### ThorWorks Industries, Inc.

Purchased by \_\_\_\_\_ Model NO. \_\_\_\_\_  
Company Name \_\_\_\_\_ Serial NO. \_\_\_\_\_  
Address \_\_\_\_\_ Acceptance Date \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

#### CORRESPONDENCE

All Correspondence regarding this equipment, as well as general correspondence should be addressed to:

ThorWorks Industries, Inc.

PO Box 2277

Sandusky, OH 44870

In referring to the equipment, kindly state the Model Number, Serial Number and any part number involved





## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

### Warranty Information

- **Limited Warranty**
- **Product Registration**
- **Authorized SealMaster Representative Only!**

#### SealMaster® LIMITED WARRANTY

SealMaster warrants that its products are of quality material and workmanship. SealMaster agrees to replace, within a period of one (1) year from date of delivery, or at its option, repair, without charge, any part of their manufacture which proved defective. The repair or replacement will be free of charge F.O.B. Sandusky, Ohio, proving the damaged part or parts are returned, freight prepaid, to SealMaster and investigation show such repair or replacement is made necessary by an inherent defect of material or workmanship.

It is hereby understood that engines, motors, pumps, or other components purchased by SealMaster for use on its equipment are not warranted by SealMaster and are sold only with the standard warranty of the manufacturer of that component.

SealMaster will make no allowances for repairs or alterations completed by outside sources unless authorization is in writing and approved by an authorized SealMaster representative.

Any claims for defective material or workmanship must be made prior to the expiration of thirty (30) days from the date failure occurs, and in all cases prior to the expiration of the warranty period of one (1) year. It is the intent of this paragraph to limit SealMaster's liability solely to the cost of replacement parts, F.O.B. factory, or at the option of SealMaster to repair of the defective part or parts. No allowances for damages, lost time, or any other claim will be recognized.

This warranty is null and void if other than genuine SealMaster parts are used.

SealMaster is constantly striving to improve their products. Changes in design and improvement will be made whenever the manufacturer believes the efficiency of the product will be improved, without incurring any obligation to incorporate such improvements in any machines which have been shipped or are in service.

In an effort to continue to improve product quality, SealMaster reserves the right to change specifications without notice.

Any modification or alteration of this machine without prior approval of the manufacturer may void this warranty.



**TR 575/750/1000 SPRAYMASTER W/ PRO AIR**

# Where to find product information:

- Owner's Manual
- Website: <https://sealmaster.net/>

**SprayMaster**  
with Pro-Air System  
575, 750 & 1000

OWNERS MANUAL



**SealMaster®**  
Pavement Products & Equipment

PO Box 2277 • Sandusky, Ohio 44870 • 419-626-4375

[sealmaster.net](https://sealmaster.net)



**TR 575/750/1000 SPRAYMASTER W/ PRO AIR**

**Questions?**

## **TR 575/750/1000 SPRAYMASTER W/ PRO AIR**



- **A manual is furnished with each new TR 575/750/1000 SprayMaster w/Pro-Air System**
- **The manual will help your machine operators learn to run the equipment properly and understand its mechanical functions for the trouble-free operation.**

# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

## SprayMaster with Pro-Air System 575, 750 & 1000

OWNERS MANUAL



Your TR 575/750/1000 SprayMaster w/Pro-Air System is designed to give excellent service and save maintenance expenses. However, as with all specially engineered equipment, you can get the best results at a minimum cost if:

- You operate your machine as instructed in this manual.
- Maintain your machine regularly as stated in this manual.

**SealMaster®**  
Pavement Products & Equipment

PO Box 2277 • Sandusky, Ohio 44870 • 419-626-4375

[sealmaster.net](http://sealmaster.net)

# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

## Air Spray Tank Operating Instructions

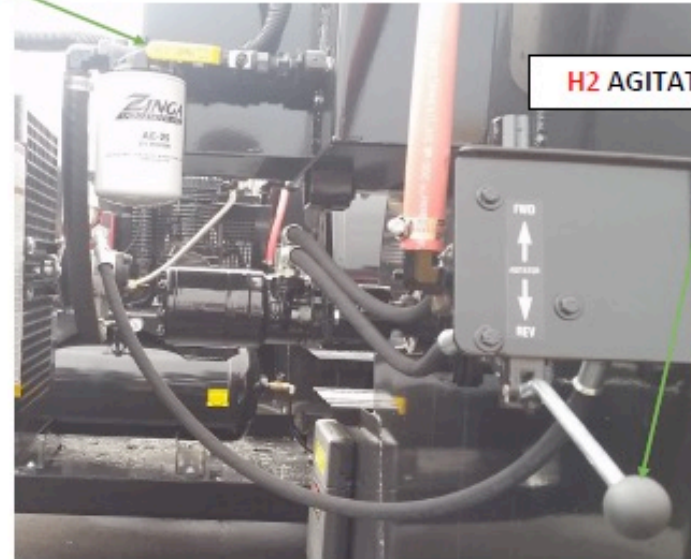
Before Starting the Engine

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

### AIR SPRAY TANK OPERATING INSTRUCTIONS

#### STARTUP

H1 HYDRAULIC OIL



H2 AGITATOR CONTROL

#### 1-BEFORE STARTING THE ENGINE

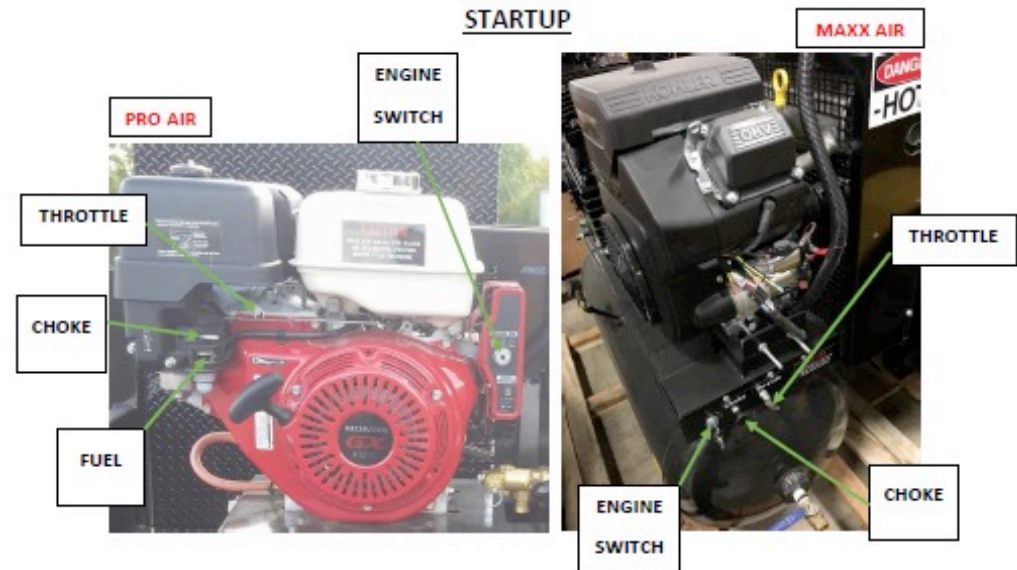
- Make sure the agitator control valve H2 is in the neutral position.  
Make sure hydraulic oil valve H1 is open.

# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

## AIR SPRAY TANK OPERATING INSTRUCTIONS

### STARTUP



# Air Spray Tank Operating Instructions

## Starting the Engine

### 2-STARTING THE ENGINE

- Set the **fuel** shutoff and **choke** levers to the **on** position.
- Set the throttle lever at  $\frac{1}{2}$  open.
- Turn the engine switch to the start position.



- It is important that when you are done running the engine that the **fuel** shutoff lever is turned to the **off** position. This keeps gasoline from mixing with oil as you are driving.  
Refer to the engine manual.

# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

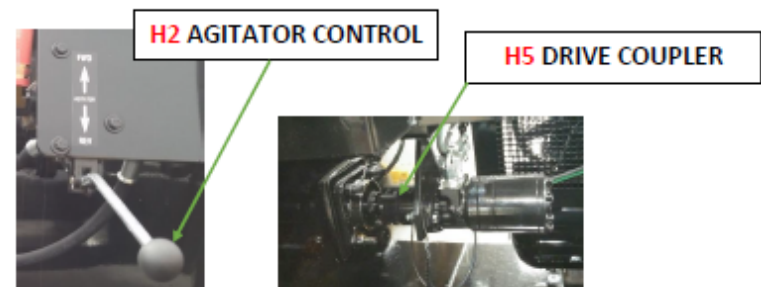
## Air Spray Tank Operating Instructions

### Agitate the Material

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

#### AIR SPRAY TANK OPERATING INSTRUCTIONS

##### MACHINE OPERATIONS



#### 3-TO AGITATE THE MATERIAL

- Add the appropriate amount of sealer and water to the tank.
- Slowly engage the agitator control valve H2 to the forward position.
- If the agitator will not turn or bogs the engine down, move the lever to the neutral then the reverse position.
- Repeat until the agitator makes a complete revolution.
- For mixing purposes, rotation direction does not matter.
- When you are standing on the fender and looking into the tank, set rotation toward you, to prevent splashing.
- Before opening the lid, stop the agitator or at least slow down the speed. Speed is controlled by the valve lever.  
**NEVER** change direction without first coming to a stop or you could **break** the drive coupler H5.



**TR 575/750/1000 SPRAYMASTER W/ PRO AIR**

# Air Spray Tank Operating Instructions

## Adding Sand/Transporting

### SPRAY MASTER TANK TRAILER WITH PRO-AIR SYSTEM

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

### AIR SPRAY TANK OPERATING INSTRUCTIONS

#### MACHINE OPERATIONS

#### 4-ADDING SAND

- When adding sand, the agitator must be rotating at a medium speed **SLOWLY** pour in the sand.
- If it stops rotating increase speed if that is not effective it needs to be cycled back and forth to get it going again.
- Once the sand is added, close the lid and let the agitator rotate at a medium to fast speed for a few minutes.
- Set to a slow speed when ready to start spraying.
- **WARNING** Never reach into the manhole with the agitator on.

#### 5-WHEN YOU ARE TRANSPORTING

- When you are traveling from job to job and have a sand mix in the tank, it is important that you leave the agitator **ON**. If not, slowly the sand will settle to the bottom and pack. It is very difficult to get pack settled sand back into suspension.
- **NEVER** add sand without agitator running.



# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

## Air Spray Tank Operating Instructions

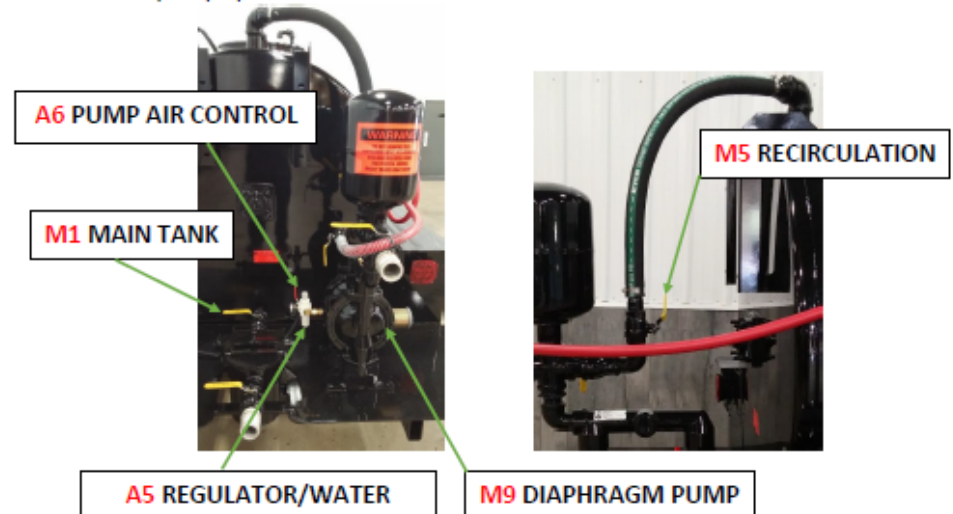
### Recirculation

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

#### AIR SPRAY TANK OPERATING INSTRUCTIONS

##### 6-RECIRCULATION

- This involves the pump drawing material out of the bottom of the tank and pumping it back in at the top.
- Be sure the product is mixed thoroughly before recirculating and before spraying the material.
- To recirculate, first open the main tank valve M1 and the recirculation valve M5.
- On the air diaphragm pump M9 is the air pressure regulator/water trap A5 and the pump air control valve A6.
- These valves turn the pump on and off, it's also used to adjust pump speed and volume.





## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Air Spray Tank Operating Instructions

## Spray Wand

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

### AIR SPRAY TANK OPERATING INSTRUCTIONS

#### MACHINE OPERATIONS

##### 7-SPRAY WAND

- Once the recirculation process is done, close recirculation valve M5.
- The material diaphragm pump M9 will stop cycling and the pressure gauge regulator/water trap A5 will read the regulator setting.
- Start with 80 psi on the gauge.
- Remove the spray hose M11 from the side of the tank or hose reel and stretch it out, making sure there are no twists or kinks.
- Open spray hose feed valve M6 to pressurize the hose, then the spray wand valve M4. To start spraying. Hold the wand at waist level and overlap 50%. Walk side to side across the area to be sealed.
- When the material is coming out of the spray tip, you will feel the wand push up.
- The thickness of the material determines how much pressure is needed to properly atomize the material.
- Adjust the pressure setting on regulator/water trap A5 to get a proper spray pattern. To do this, turn the knob on top of regulator clockwise to increase pressure or counterclockwise to decrease.
- You may need to run the pressure at the maximum of 125 psi, depending on your material.



## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Air Spray Tank Operating Instructions

## Spray Wand

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

### AIR SPRAY TANK OPERATING INSTRUCTIONS

#### MACHINE OPERATIONS

#### 7-SPRAY WAND cont.

- Pump air control valve A6 determines how much air enters the diaphragm pump, and how fast it will cycle. Typically, this valve is open completely.
- The pump automatically slows down or speeds up depending on tip size or condition.
- When you close the spray wand valve M4, the pump will make a few cycles then stop.
- When the wand is opened, the pump will start pumping again. If it does not, bleed all of the air from the system and start over.
- If the pump still does not cycle, refer to the troubleshooting guide in the pump manual.
- Open spray wand valve M4 on the wand completely to make it last longer.
- The spray wand valve M4 and 80-70 spray tips M10 are wearing items and need to be replaced periodically.
- 80-70 or 80-100 spray tips M10 typically need to be replaced every 500 to 1000 gallons if using a sand mix.
- The center of the spray starts to get heavy as the tip wears. Using worn tips causes an inconstant spray pattern making it difficult to maintain a uniform coating.

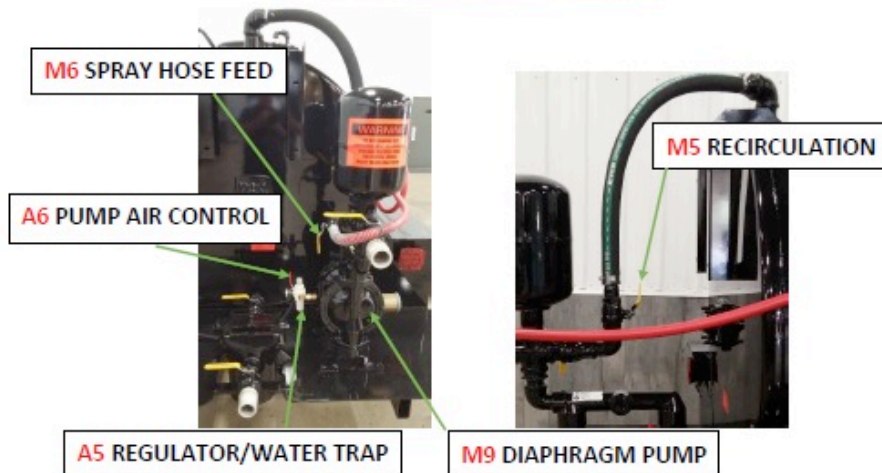
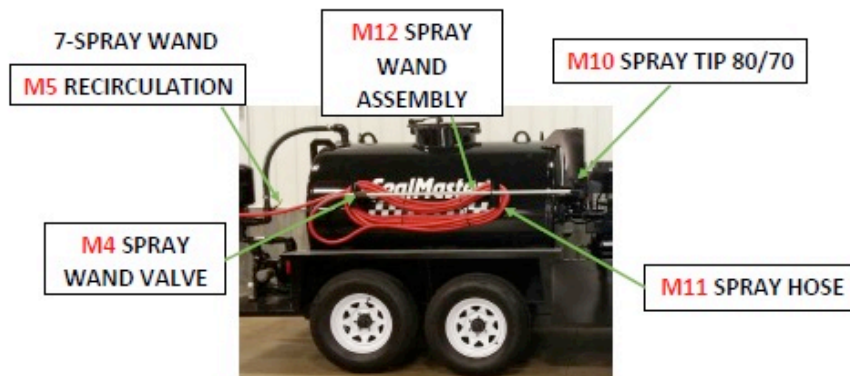
# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

## Air Spray Tank Operating Instructions

### Spray Wand

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

#### AIR SPRAY TANK OPERATING INSTRUCTIONS





## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Air Spray Tank Operating Instructions

## Spray Bar

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

### AIR SPRAY TANK OPERATING INSTRUCTIONS

#### 8-SPRAY BAR

- The throttle on the compressor engine A1 needs to be set between 3/4 and full position to ensure there is enough air available for the diaphragm pump M9.
- Open spray tip valves M7 on the spray bar, after completing the recirculation process.
- Position the machine, motion for the driver to start forward at approx. 4mph, open spray bar feed valve M3, and also the **(optional)** spray bar lever, this opens all of the spray tip valves M7 at the same time, to start spraying.
- There will be a surge of material, the pump will cycle rapidly then slow to a regular cycle rate.
- To reduce the initial surge, move the spray bar lever slowly to control the flow.
- Control how fast the pump cycles by opening or closing the pump air control valve A6.
- Run the pump pressure at the lowest acceptable application pressure to reduce overspray.
- Control pressure by using the regulator/water trap A5.

Close spray bar feed valve M3 or the spray bar lever **(optional)** when you reach the end of your pass, leave all of the pump controls set. The pump will come back on when you open the spray bar valves. Position the tires right next to the previous pass, this will give you the proper overlap.

# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

## Air Spray Tank Operating Instructions

### Spray Bar

8-SPRAY BAR



M3 SPRAY BAR FEED

A1 COMPRESSOR ENGINE



THROTTLE

A6 PUMP AIR CONTROL

M9 DIAPHRAGM PUMP

A5 REGULATOR/WATER TRAP

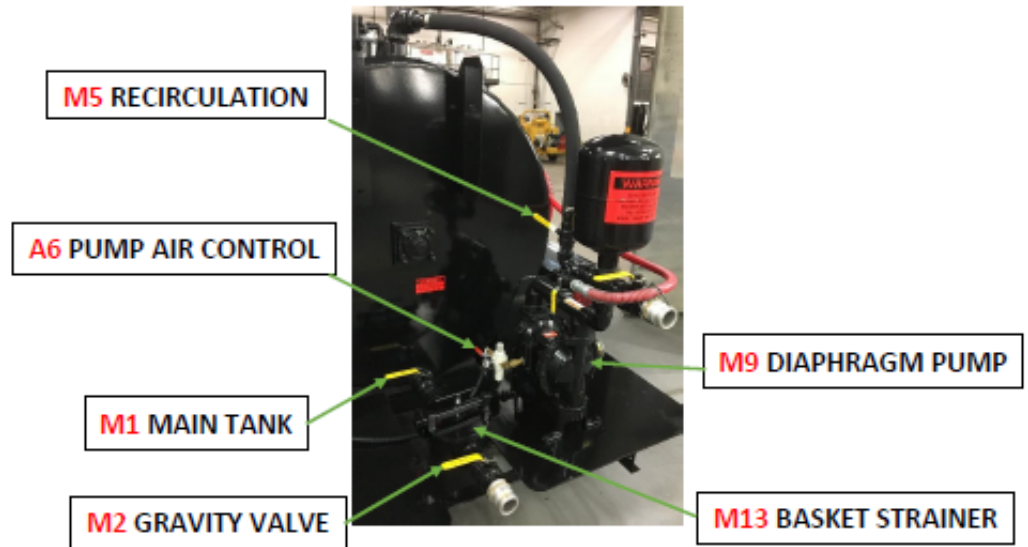
## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Air Spray Tank Operating Instructions

## Filling Tank from Drum/Another Tank

### 9-FILLING THE TANK FROM A DRUM OR ANOTHER TANK

- Close the main tank valve M1 and connect a 2" hose to gravity valve M2 located on the basket strainer M13.
- Put the end of the hose into your drum or connect to the other tank.
- Open recirculation valve M5 open pump air control valve A6 located on material diaphragm pump M9.
- The material will go thru the basket strainer and be pumped up into the top of the tank.
- Reverse the steps when done.





## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Air Spray Tank Operating Instructions

## Filling a Bucket

## Cleaning the Basket Strainer

### 10-FILLING A BUCKET

- You can fill a bucket for edging purposes by opening main tank valves M1 and gravity valve M2.

### 11-CLEANING THE BASKET STRAINER

- When you notice the spray pattern has started to decrease, or it is taking longer for the pump to stop when you close the spray wand or spray bar valves, the basket strainer M13 needs to be cleaned.
- It requires cleaning at least once a day and sometimes several times a day.
- Close main tank valve M1 and remove the lid assembly, it may be necessary to open gravity valve M2 to release vacuum or pry off the lid as the rubber gasket adheres to the housing.
- Reach in and pull the strainer basket P14 out and put it in a bucket of water.
- If the material is hard packed or dry, you will have to scrape with a screwdriver.
- It is advised to have a 2nd basket on hand. It can be replaced and returned to spraying while the first is being cleaned.



# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

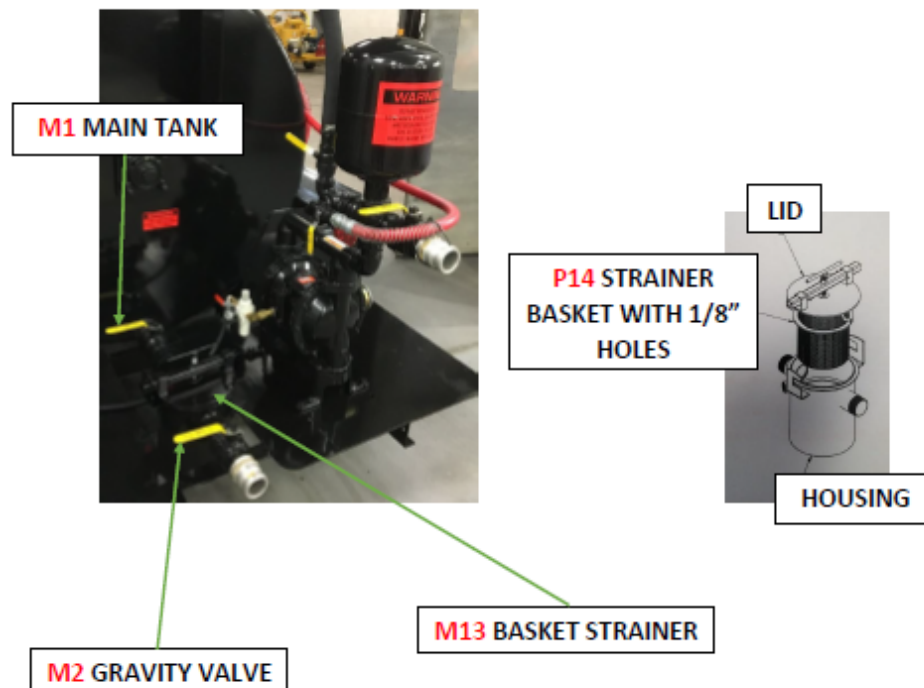
## AIR SPRAY TANK OPERATING INSTRUCTIONS

### MACHINE OPERATIONS

#### 11-CLEANING THE BASKET STRAINER

# Air Spray Tank Operating Instructions

## Cleaning the Basket Strainer





## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Air Spray Tank Operating Instructions

## Water Flush

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

### AIR SPRAY TANK OPERATING INSTRUCTIONS

#### 12-WATER FLUSH

- It is not necessary to flush the system every day. We suggest removing the spray tip and plugging the wand.
- If the machine is going to be out of service for a week or more, then water flush the system.
- If outfitted with the water option, close main tank valve M1 and open the small water flush valve P15 that is on the basket strainer M13.
- Make sure the recirculation valve M5 is closed or you will pump water into your tank.
- Open pump air control valve A6 and either your spray wand valve M4 or spray bar feed valve M3. Pump until water runs clear.
- On basket strainer M13 is a water check valve P6, this keeps sealer from flowing into the water tank if you leave the valve open. Do not rely on this check valve to always operate properly, always close the water flush valve P15.
- If you do not have the water option, close main tank valve M1. Remove the lid assembly from the basket strainer M13.
- Open pump air control valve A6 and pour water in as it is being pumped to the spray wand or spray bar.

Note: Skid tank configuration is different from the trailer, but the operation is the same.

# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

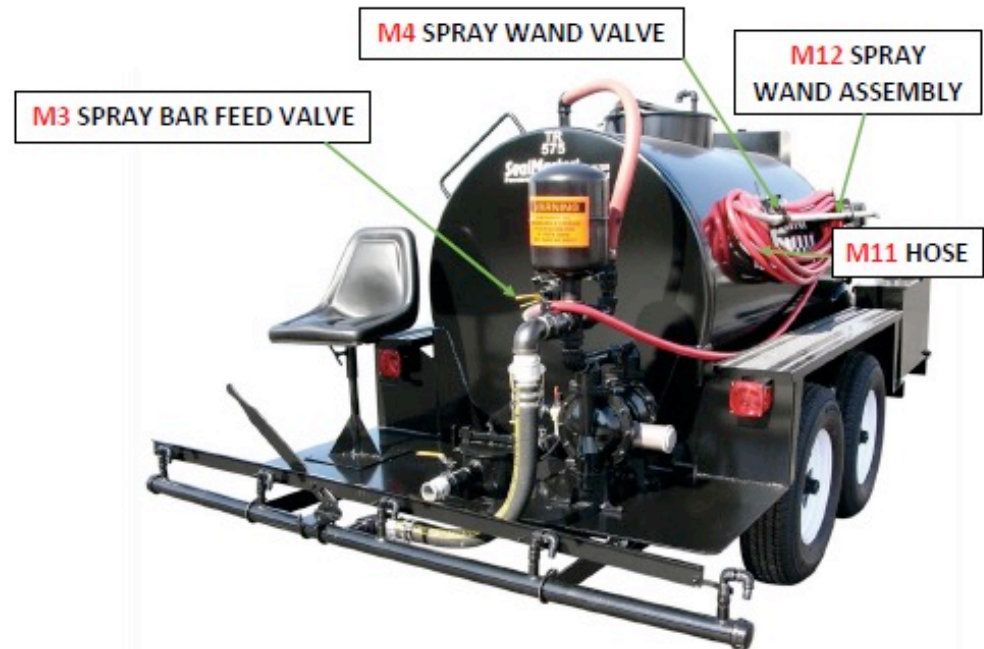
## Air Spray Tank Operating Instructions

### Water Flush

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

AIR SPRAY TANK OPERATING INSTRUCTIONS

MACHINE OPERATIONS





## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Air Spray Tank Operating Instructions

## Air Operation Instructions Filling the Tank Using the Diaphragm Pump

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

### AIR SPRAY TANK OPERATING INSTRUCTIONS

#### AIR OPERATION INSTRUCTIONS

1. Completely read the air compressor owner's manual before attempting to start the engine.
2. Add gasoline to the engine. Check the oil levels in the engine and air compressor. Use only oil recommended for the air compressor.
3. Be sure the agitator control valve H2, is in **NEUTRAL** when starting the compressor.
4. Follow the start-up procedure listed in the air compressor manual.

#### FILLING THE TANK USING THE DIAPHRAGM PUMP

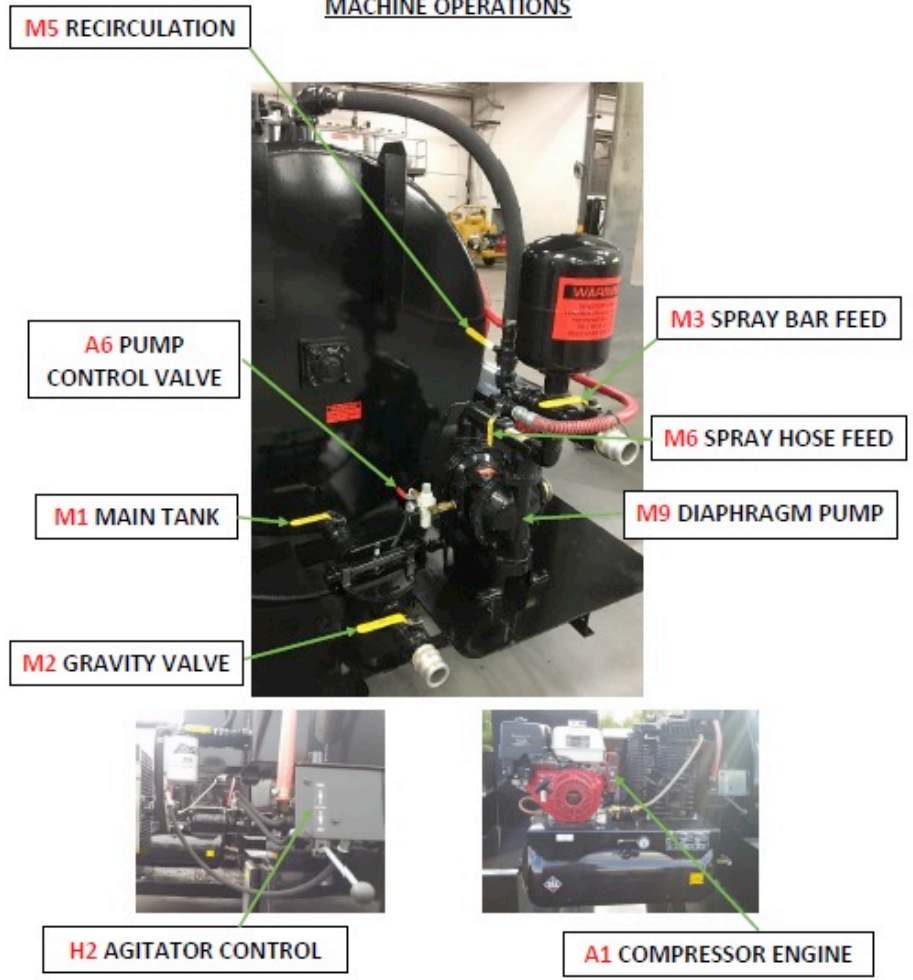
1. Connect your hose to gravity valve M2 and your source of material. Close main tank valve M1, spray bar feed valve M3 and spray hose feed valve M6.
2. Open gravity valve M2 and recirculation valve M5.
3. Start the compressor engine A1, and open pump control valve A6. The diaphragm pump M9 will now draw material into the basket filter. It will then enter the pump and be pushed up the return line attached to the top of the tank. When the tank is full, close gravity valve M2. Then close recirculation valve M5.  
Add water and engage agitator control valve H2. It is a metering valve. (The farther the lever is moved, the faster the agitator will rotate). After the water has been blended in add sand and additives. Keep agitator rotating slowly.

# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

## Air Spray Tank Machine Maintenance

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

### MACHINE OPERATIONS



# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

## Air Spray Tank Machine Maintenance

### Maintenance Schedule

#### AIR SPRAY TANK MACHINE MAINTENANCE MAINTENANCE SCHEDULE

Follow maintenance procedures listed in the engine and compressor manuals.

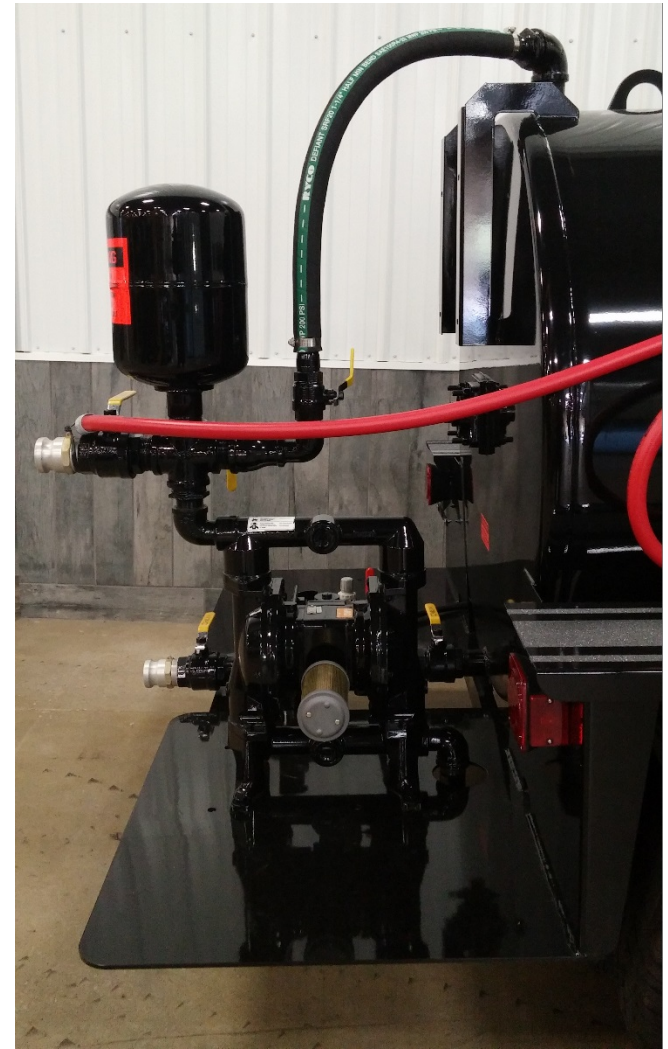
MAINTAIN	8 HRS	1 WEEK	1 MONTH	6 MONTHS	1 YEAR	2 YEARS
CHECK ENGINE OIL LEVELS	✓					
CHECK COMPRESSOR OIL LEVELS	✓					
CHECK HYDRAULIC OIL LEVELS	✓					
TIGHTEN V-BELT	✓	✓	✓			
REPLACE V-BELT					✓	
CHANGE HYDRAULIC. OIL FILTER					✓	
CHANGE HYDRAULIC. OIL *						✓
GREASE AGITATOR BEARINGS				✓		
DRAIN WATER FROM COMPRESSOR		✓				
DRAIN WATER FROM REGULATOR	✓					
CHECK TIRE PRESSURE			✓			
GREASE PIVOT BRACKET					✓	
GREASE WHEEL BEARINGS					✓	
INSPECT ALL HOSES	✓					

\* Use a good quality AW68 hydraulic oil with a rating of 352 SUS @100 F. Do not use a 150 rated hydraulic oil as it is too light.

**TR 575/750/1000 SPRAYMASTER W/ PRO AIR**

# Air Spray Tank Machine Maintenance

Diaphragm Pump





## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Air Spray Tank Machine Maintenance

## How to Winterize Your Equipment

[APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS](#)

### AIR SPRAY TANK MACHINE MAINTENANCE

#### HOW TO WINTERIZE YOUR EQUIPMENT

1. Add water to the tank and let it agitate at a high speed for 30 minutes. Pump this water thru the spray wand and or spray bar. When the tank is empty, make a 50/50 mixture of antifreeze and water approx. 4-gals, pour this into the tank. Turn on the material pump and open the spray wand and spray bar until the mixture starts to come out. Open the recirculation valve for a brief moment, then close it. The entire pumping system is now protected from freezing.
2. If you have a water tank and pump, run antifreeze thru this also.
3. Disconnect the battery and take it inside. A battery charging maintainer will assure that it lasts thru the offseason.
4. Cover the engine and compressor with a plastic bag.
5. Cover the cap on top of the hydraulic tank.
6. In the spring totally flush all antifreeze from the system. In the winter, when the temperature is below freezing, get inside of the tank with proper hearing protection and an air chipping gun with a 1" spade bit and chip off all remaining sealer from the walls and paddles.

**NOTE:** If you do not do this, the dried material will come off all during the season causing the basket strainer and spray tips to plug.





# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Air Spray Tank Machine Maintenance

## Troubleshooting Guides 10 Troubleshooting Guides-TR

APPLIES TO ALL PRO-AIR AND MAXX-AIR TRAILER AND SKID VERSIONS

### AIR SPRAY TANK MACHINE MAINTENANCE

#### TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSES/SOLUTIONS
AIR REGULATOR DROPS PRESSURE	MATERIAL TOO THICK/ THIN WITH WATER
	CHECK VALVE IS DAMAGED / INSPECT BALLS AND BALL SEATS
SURGE TANK - <b>NOTE</b> EXCESSIVE PULSATION	TANK PLUGGED / CLEAN OUT TANK
	CHECK VALVE WORN / INSPECT FOR STUCK CHECK BALL
BASKET STRAINER EXCESSIVE PLUGGING	MATERIAL CHUNKS/ EMPTY TANK-FLUSH WITH WATER
	EXCESSIVE SAND / LACK OF SEALER VISCOSITY MODIFIER
	MATERIAL / TOO MUCH WATER HAS BEEN ADDED

**SURGE TANK – NOTE**

**WEARING OF A FACE SHIELD IS RECOMMENDED**

PRESSURE CAN BE RELIEVED FROM SYSTEM BY OPENING THE SPRAY WAND AND RECIRCULATION VALVES, ALSO IF THERE IS A (**OPTIONAL**) SPRAY BAR, OPEN THE SPRAY BAR FEED VALVE.

KEEP IN MIND THE PLUMBING CONNECTING THE PUMP TO THE SURGE TANK COULD ALSO BE PLUGGED, AND THERE MAY BE RESIDUAL PRESSURE STILL IN THE SYSTEM.

## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Troubleshooting Guide – TR

### 1. Agitator Tries to Rotate

- The sand has settled to the bottom. You can carefully rock it back and forth. If that doesn't work, take a length of pipe or your spray wand with the tip removed, connect an airline to it and probe into the sand until it gets worked loose enough for the agitator to rotate.



## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Troubleshooting Guide – TR

## 2. Shaft Coupler Turns but the Agitator Shaft Does Not

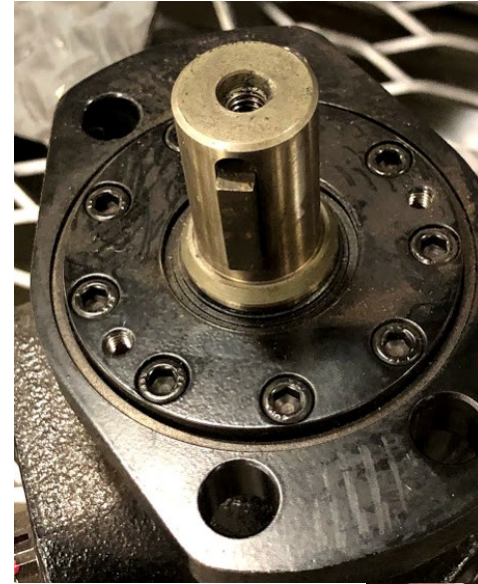
- The shaft key has sheared, remove the motor and coupler and replace the key. Replace the coupler if the keyway is damaged.



# Troubleshooting Guide – TR

## 3. Agitator Makes no Effort to Rotate

- The key on the motor shaft has sheared. Remove the motor and replace the key. Inspect the coupler to make certain the keyway isn't damaged. Replace the coupler if they keyway is damaged.



## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Troubleshooting Guide – TR

### 4. When I Removed the Engine Dipstick for the Oil it Overflowed and Smells Like Gasoline

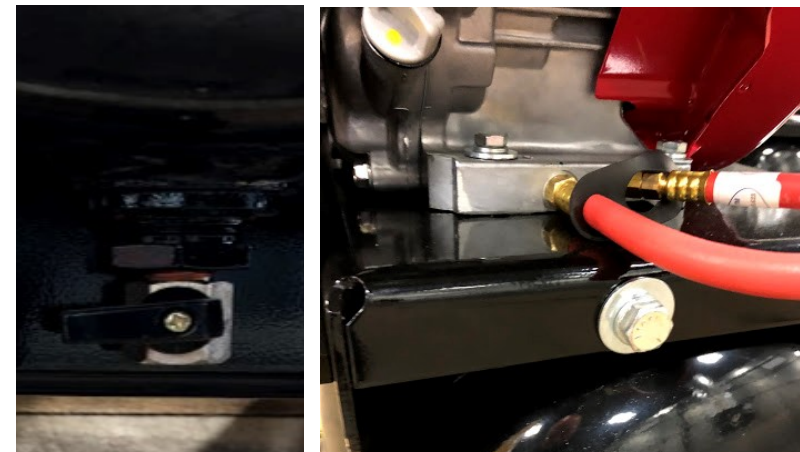
- You are not sliding the fuel shutoff lever to the off position after each use. When driving the bouncing of the machine causes the carburetor float to move and gas flows down into the crank case. Drain and put in fresh oil and get into the habit of closing the shutoff after each use.
- Picture shows off position.



## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Troubleshooting Guide – TR

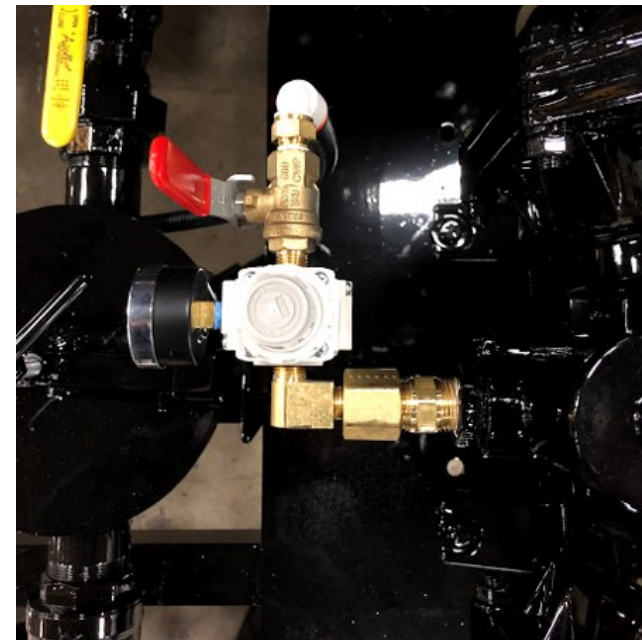
5. Air Compressor no Longer Supplies Enough Air When I am Spraying
  - The belts need tightened and/or replaced. Proper tension is determined by midway between the pulleys, you should be able to move the belt up or down 1/2". Any more than that is excessive. Also, the air receiver tank needs to be drained weekly of water. Under the tank is a valve for this purpose.



## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Troubleshooting Guide – TR

6. **Spray Pressure is Weak and the Gauge on the Pump Regulator Drops to 40 PSI when the Pump Cycles, I Have Checked the Strainer Basket**
  - With the lid off of the strainer housing, open the main valve to determine that there is good flow coming into the housing. Assuming the material is not overly thick, take a look at the check balls and the ball seats. If they are 2 or more years old, they need to be replaced.



## Troubleshooting Guide – TR

- 6. Spray Pressure is Weak and the Gauge on the Pump Regulator Drops to 40 PSI when the Pump Cycles, I Have Checked the Strainer Basket**
  - The top balls are inside the top pump manifold and they should fall out when the seats are removed. If they have to be pried out, then change them. The seats will wear right where the ball sits on it. Excessive wear caused the ball to set lower into the seat. On some pumps, the seat can be turned over to gain longer life, but the ball may still need to be changed. The bottom balls and seats need changed at the same time as the top ones. Unbolt the center section of the pump from the lower manifold to access them.
  - Another reason can be the check valves which are located behind the air valve on the pump. The air valve is what the air line from the compressor attaches to. The edges of the check valves are very thin and pieces can break away from the edges.

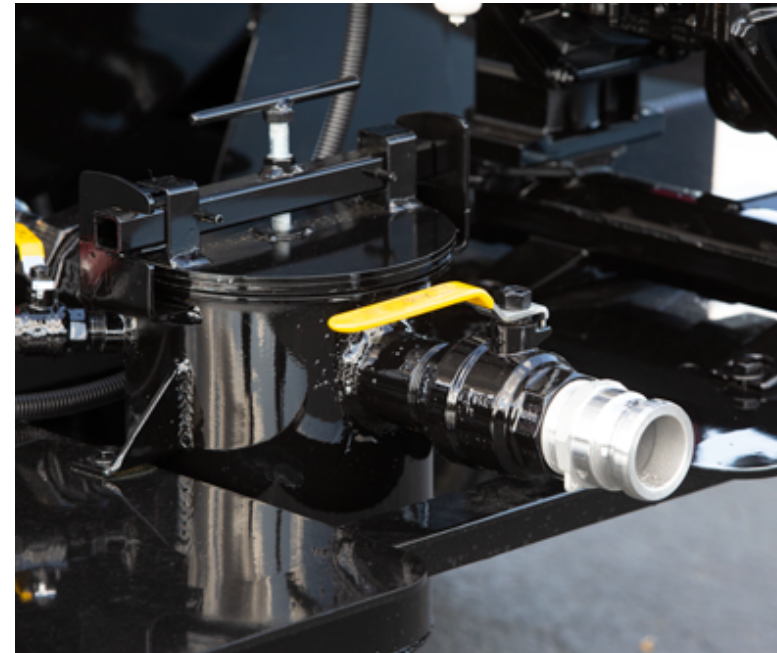


## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Troubleshooting Guide – TR

### 7. Air Coming out of the Spray Tip

- There is a suction air leak at the basket strainer lid gasket. Inspect the rubber gasket where it meets the housing. If cut through, replace it. Or there could be a build up of sealer on the ring around the housing top. Scrape off the built up sealer. Another possibility is a ruptured diaphragm. Replace both if one turns out to be the reason.



# Troubleshooting Guide – TR

## 8. Excessive Pulsation

- The wand will have some movement up and down as the pump cycles. Extreme movement can be caused by:
- Plugged surge tank
- Check ball is not seating properly on the diaphragm pump.
- Basket Strainer is plugged.
- If you have the water tank option, water check valve open.





## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Troubleshooting Guide – TR

### 9. Drain – Air Tank



## TR 575/750/1000 SPRAYMASTER W/ PRO AIR

# Troubleshooting Guide – TR

### 10. Air – Valve – Pop Off

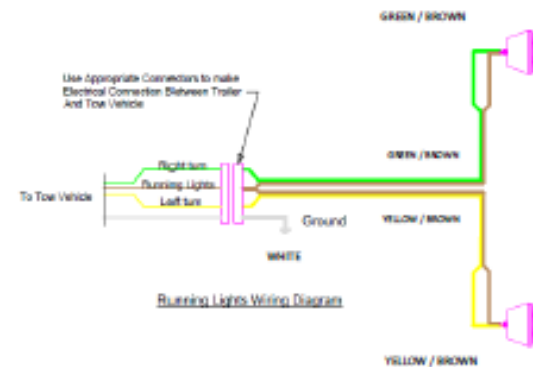
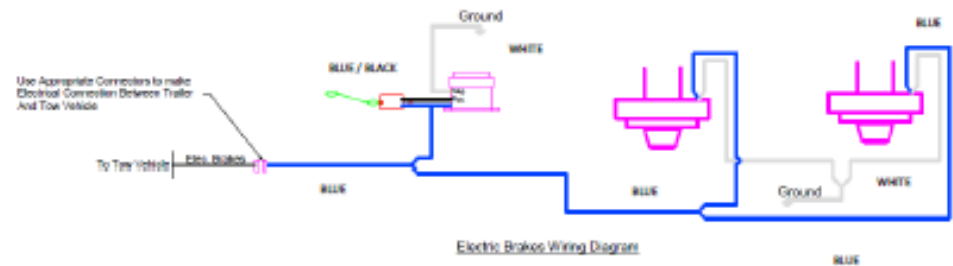


# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

## Wiring Diagrams

### Electric Brakes & Running Lights

#### ELECTRIC BRAKES AND RUNNING LIGHTS





# TR 575/750/1000 SPRAYMASTER W/ PRO AIR

## Tank Capacity Chart

TANK CAPACITY CHART					
GALLONS ARE APPROXIMATE AND MAY VARY SLIGHTLY TANK TO TANK					
MATERIAL DEPTH AND GALLON VOLUME					
MATERIAL DEPTH	300 GALLONS 41"x54"	575 GALLONS 48"x74"	750 GALLONS 56"x74"	1000 GALLONS 48"x132"	1000 GALLONS 64"x74"
INCHES	GALLONS	GALLONS	GALLONS	GALLONS	GALLONS
1	2	3	3	5	3
2	6	8	9	15	10
3	10	15	16	27	18
4	15	23	25	41	27
5	21	32	35	57	37
6	28	42	45	75	49
7	35	52	57	93	61
8	42	64	69	113	74
9	50	75	82	134	88
10	58	87	95	156	103
11	67	100	109	179	118
12	75	113	124	202	134
13	84	127	139	226	150
14	93	141	154	251	167
15	102	155	170	276	184
16	112	169	186	302	201
17	121	184	202	328	219
18	130	199	219	354	238
19	140	214	236	381	256
20	150	229	253	408	275
21	159	244	270	435	294
22	169	259	288	462	314
23	178	274	305	490	333
24	188	290	323	517	353
25	197	305	341	544	373
26	206	321	359	572	393
27	216	336	377	599	413
28	225	351	395	626	433
29	233	366	412	653	454
30	242	381	430	680	474
31	250	396	448	706	495
32	258	411	466	732	515
33	266	425	484	758	536

MATERIAL DEPTH	300 GALLONS 41"x54"	575 GALLONS 48"x74"	750 GALLONS 56"x74"	1000 GALLONS 48"x132"	1000 GALLONS 64"x74"
INCHES	GALLONS	GALLONS	GALLONS	GALLONS	GALLONS
34	274	439	501	783	556
35	281	453	519	808	577
36	287	466	536	832	597
37	293	479	553	855	617
38	298	492	570	878	638
39	303	504	587	900	658
40	307	516	603	921	678
41	309	527	619	941	697
42		538	635	959	717
43		548	650	977	736
44		557	665	993	755
45		565	680	1007	774
46		571	694	1019	793
47		577	707	1029	811
48		580	720	1034	829
49			732		847
50			744		864
51			754		881
52			764		897
53			773		913
54			780		928
55			786		942
56			789		956
57					969
58					982
59					993
60					1004
61					1013
62					1021
63					1027
64					1031



**TR 575/750/1000 SPRAYMASTER W/ PRO AIR**

**Questions?**