



ROYALL

Asphalt • Sealcoating



ST-SERIES PAVEMENT PRODUCTS

OWNERS MANUAL

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ROYALL LIMITED WARRANTY

Royall warrants that its products are of quality material and workmanship. Royall 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 providing the damaged part or parts are returned, freight prepaid, to Royall 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 Royall for use on its equipment are not warranted by Royall and are sold only with the standard warranty of the manufacturer of that component.

Royall will make no allowances for repairs or alterations completed by outside sources unless authorization is in writing and approved by an authorized Royall 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 Royalls liability solely to the cost of replacement parts, or at the option of Royall 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 Royall parts are used.

Royal 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, Royall 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.

SAFETY PRECAUTIONS AND CAUTIONS

PRECAUTIONS

- Always wear **eye** and **ear** protection, and **gloves**.
- Be Aware of all **CAUTION AND WARNING** signs on the machine.



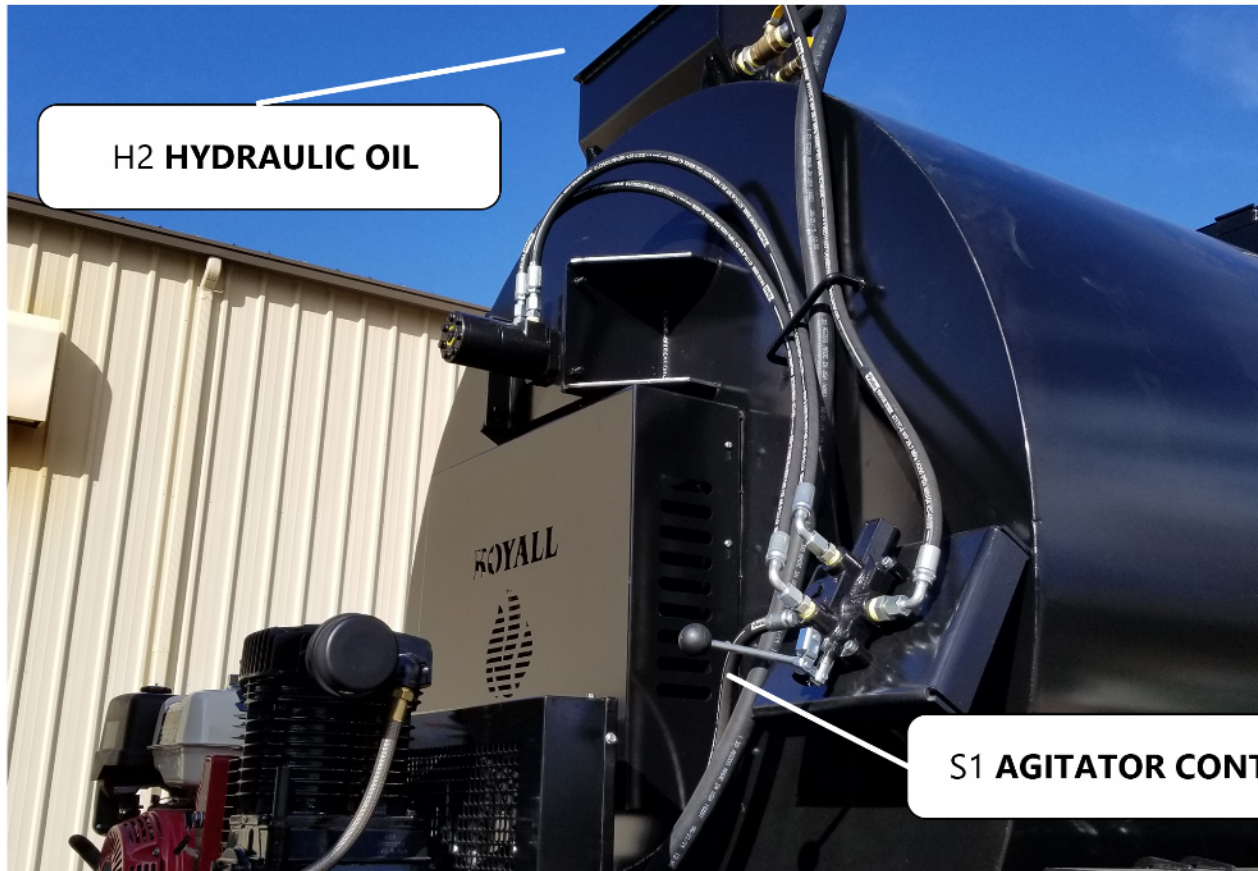
- Read all Owners Manuals that come with this Machine.
- Daily check the Engine, Air Compressor, and Hydraulic oil levels.
- Refer to Owners Manuals for proper types of oils.
- Make sure the operator is familiar with machine operation.
- Shut down compressor engine prior to refilling the gas tank.
- Replace any hoses that show signs of wear, fraying or splitting.
- Be sure all fittings and joints are tight and leak proof.
- Tighten all bolts and screws after every 100 hours of operation.
- The machine should not be left unattended when running.

CAUTIONS

- Do not operate the machine in an enclosed building or confined area.
- Keep hands, feet, and clothing away from moving parts.
- Do not operate the machine without all guards in place.
- Do not point the spray nozzle at another person.
- Wear eye protection when operating the spray wand or spray bar.

AIR SPRAY TANK OPERATING INSTRUCTIONS

STARTUP

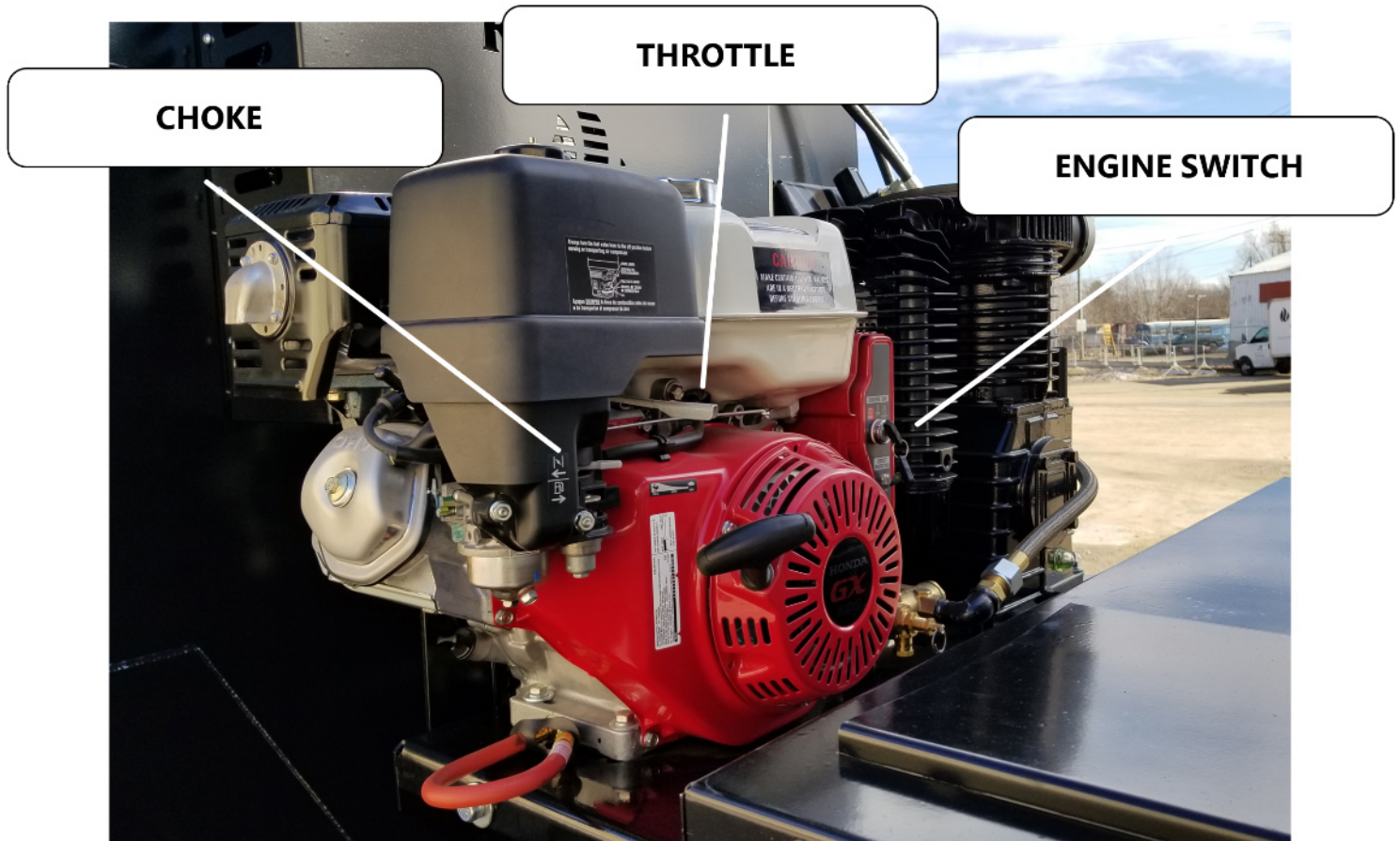


BEFORE STARTING THE ENGINE

- Make sure the agitator control valve H2 is in the neutral position.

AIR SPRAY TANK OPERATING INSTRUCTIONS

STARTING THE ENGINE



- Set the choke lever to the on position.
- Set the throttle lever at ½ 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.

AIR SPRAY TANK OPERATING INSTRUCTIONS

TO AGITATE MATERIAL



S1 AGITATOR CONTROL

- 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.

AIR SPRAY TANK OPERATING INSTRUCTIONS

ADDING SAND

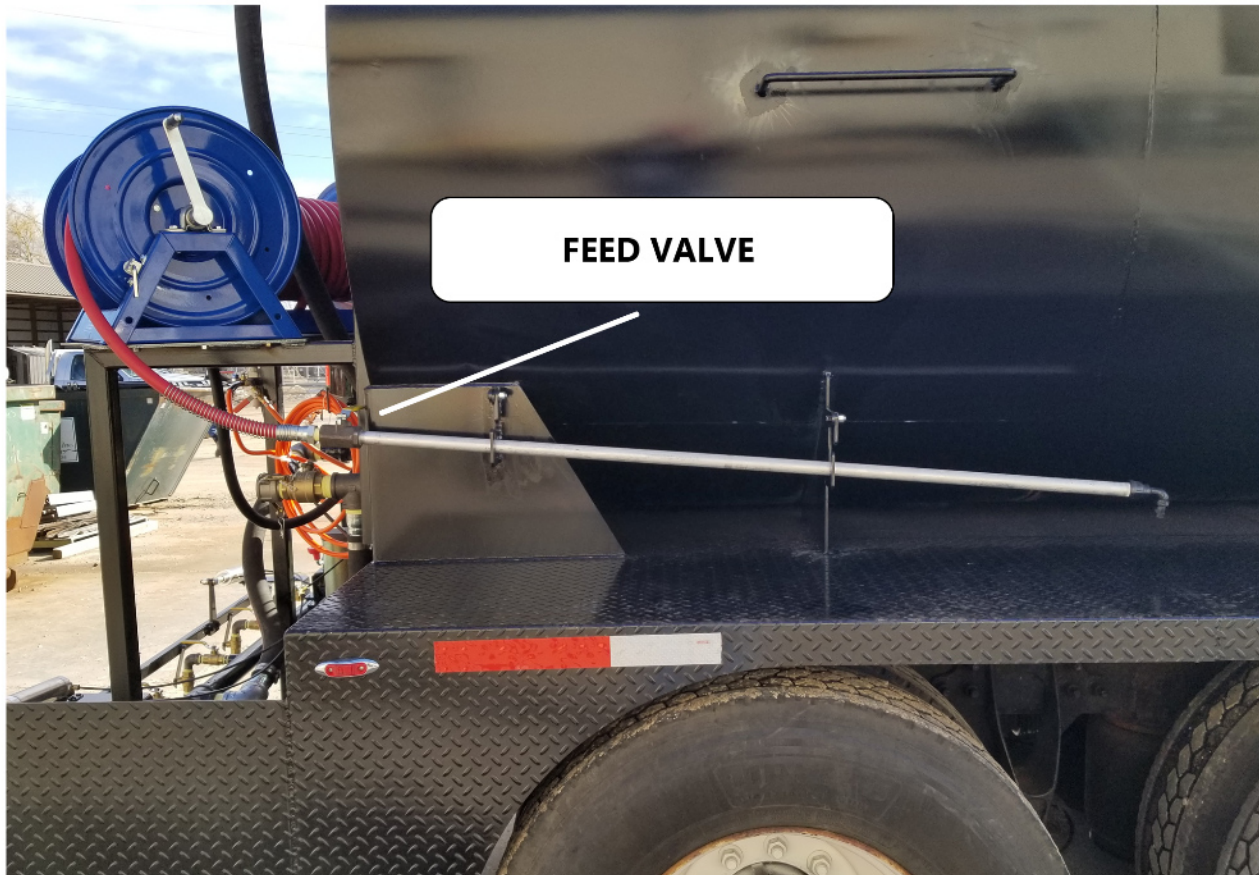
- When adding sand, the agitator must be rotating at a medium speed and SLOWLY pour in the sand.
- If it stops rotating increase speed if that is not effective it needs to be cycled back and forth to get it going again.
- Once the sand is added, close the lid and let the agitator rotate at a medium to 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.

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.

AIR SPRAY TANK OPERATING INSTRUCTIONS

SPRAY WAND OPERATION



- Remove the spray hose 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 To pressurize the hose, then the spray wand valve. 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 slightly push up.
- The thickness of the material determines how much pressure is needed to properly atomize that material.
- Adjust the pressure setting on regulator 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.

AIR SPRAY TANK OPERATING INSTRUCTIONS

SPRAY BAR OPERATION



- The throttle on the compressor engine needs to be set between 3/4 and full position to ensure there is enough air available for the diaphragm pump
- Open spray tip valves On the spray bar.
- Position the machine, motion for the driver to start forward at approx. 4mph, open spray bar feed valve, 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.
- Run the pump pressure at the lowest acceptable application pressure to reduce overspray.