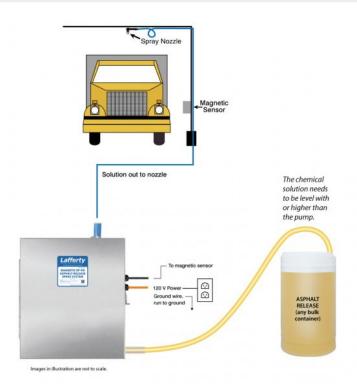
Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 977894 · Magnetic EP-PD Asphalt Release Spray System

REQUIREMENTS		
Ready-to-Use Chemical Solution		
Hose	3/4" ID x 40'	
Nozzle	45WSQ	
Electric	120V	
OPTIONS		
Heater Assembly Retro-Fit Heater Assembly		# 720981

rear of it reducer / toooringry	# 120001	
Drum & Tote Stick Lengths & Seal Materials		
Drum Stick, 33" (Viton or EPDM)	# 491643 / 491643-E	
Drum Stick, 48" (Viton or EPDM)	# 491648 / 491648-E	
Drum Stick, 54" (Viton or EPDM)	# 491645 / 491645-E	
Tote Stick, 33" (Viton or EPDM)	# 491653 / 491653-E	
Tote Stick, 48" (Viton or EPDM)	# 491654 / 491654-E	
Tote Stick, 54" (Viton or EPDM)	# 491656 / 491656-E	

Level Masters Provide an Automatic Supply	
of Ready-to-Use Chemical	
Level Master (Various Tank Sizes)	# 989304
Gemini Level Master (Various Tank Sizes)	# 989316





www.laffertyequipment.com 501-851-2820

WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The Magnetic EP-PD Asphalt Release Spray System is a magnetic sensor activated, time delayed, asphalt release applicator that mounts to a user-supplied drive-though arch for spraying asphalt truck beds. It is designed for facilities with low or no water pressure. This system uses an electric pump to draw ready-to-use chemical from a static tank. When a truck comes into range of the magnetic sensor, a delay timer allows the driver to position the truck under the spray nozzle before spraying begins and a run timer applies release agent for a pre-set time or until the vehicle leaves the spraying area, whichever is first.

SAFETY & OPERATIONAL PRECAUTIONS

- See Additional Safety Instructions included with the Electrical Control Box
- Always consider electrical shock hazard when working with and handling electrical equipment. If uncertain, consult an Electrician. Electrical wiring should only be done by a qualified Electrician per Local and State Electrical Codes.
- For proper performance do NOT modify, substitute nozzle, hose diameter or length.
- Manufacturer assumes no liability for the use or misuse of this unit.
- Wear protective clothing, gloves and eye wear when working with chemicals.
- Always direct the discharge away from people and electrical devices.
- Follow the chemical manufacturer's safe handling instructions.
- NEVER mix chemicals without first consulting chemical manufacturer.
- Operate the electric pump according to the limitations specified on the data label.
- Do not use with flammable or hazardous fluids not compatible with stainless steel.

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

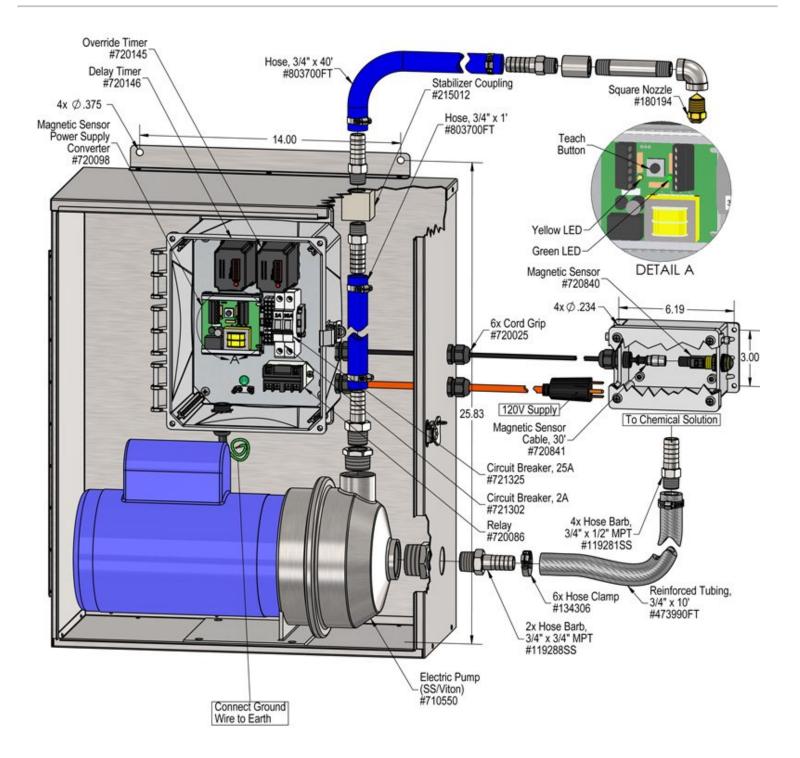
- 1. Mount the unit to a solid, secure surface within 15' of the drive lane. This is a centrifugal pump and will need primed the first time it is used and each time it runs dry. It has to be gravity fed to prime and run. Mount close to and LOWER than the container of RTU chemical solution.
- 2. Do NOT connect to electricity yet.
- 3. Construct the mounting arch, then mount the nozzle assembly as shown in the illustration on page 1. To prevent dripping after each cycle leave a loop in the hose to make the nozzle higher than the bottom of the loop.
- 4. Mount Magnetic Sensor and perform set-up procedure. See separate Insert "Installation and Set-up Instructions for Magnetic Sensor".
- 5. Connect the 3/4" suction tube to the hose barb. Secure all tubes with the clamps do not over-tighten. Immerse suction tube into a container of water for initial testing.
- 6. Make sure the system is not plugged in to a power source. Remove control box cover. The box contains two timers (Delay & Override).
 - **Delay Timer:** This timer allows you to set the time to the approximate number of seconds needed from the time the truck triggers the magnetic sensor until the truck bed is positioned underneath the nozzles. Set the timer by pushing the combination of dip switches that will equal the total number of seconds you need for the delay.
 - **Override Timer**: This timer controls the maximum amount of time the sprayer will operate for. Set the timer by pushing the combination of dip switches that equal the total number of seconds you need the system to spray. Note: if the truck exits before this time has elapsed, the spray will stop.
- 7. Replace the control box cover.
- 8. Plug power cord into 120 VAC outlet on dedicated 20A breaker.

TO TEST

- 1. The pump may take a few seconds to prime, fill the suction tube with water to help the pump prime
- 2. Perform "test runs" with water only and make any necessary timer adjustments, and any nozzle and magnetic sensor sensitivity adjustments.
- 3. The system will shut off when the magnetic sensor no longer senses the truck. Make sure the sensitivity level is set so that any gap between the cab and the bed of the truck does not cause the system to shut off.
- 4. After several successful test runs have been made you are ready to operate.
- 5. Immerse the suction tube into the container of RTU chemical solution. Ensure chemical solution is higher than the pump.

TO OPERATE

- Once adjustments have been made to timers, drive the first truck through and make any last adjustments as needed.
- 2. The unit is ready for operation.



Troubleshooting Guide

Problem	Р	Possible Cause / Solution	
	Startup	Maintenance	
A) Pump will not run or pump.	1,2,3,4,5	6,7,8	
B) Pump runs with no output.	2,3	6,7,8	
C) Unit will not draw chemical.	2,3		
D) Suction tube will not stay primed.	7	8	
E) Unit comes on and runs continuously.	4,5		
G) Asphalt continues to stick to truck.		6	

Possible Cause / Solution				
Startup	Maintenance			
 Problem with pump Refer to pump manual. Suction hose not immersed or connected to chemical solution or depleted. Immerse tube, tighten connection or replenish. Discharge hose kinked. Straighten Timer not set properly or malfunctioned See Timer Adjustment on page 2 or replace timer. May have electrical problems Have a qualified electrician check electrical connections. Ensure circuit breaker in control box has not been tripped. Ensure main outlet breaker has not been tripped. See requirements. Make sure the sensor has not been moved or the surroundings have not changed May have to re-teach the sensor. May have to re-teach the sensor. May have to re-teach the sensor. 	6. Chemical strainer blocked or chemical concentration too weak Clean or replace chemical strainer. Increase chemical concentration. 7. Vacuum leak in suction hose. Tighten the clamps and check the barbs. 8. Check valve stuck or failed Clean or replace.			

PREVENTIVE MAINTENANCE: When the unit will be out of service for extended periods, place chemical tube(s) in water and flush the chemical out of the unit to help prevent chemical from drying out and causing build-up. Periodically check and clean chemical strainer and replace if missing.

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