

LAFFERTY EQUIPMENT MFG., INC.

INSTALLATION / OPERATION INSTRUCTIONS

TIMED ASPHALT RELEASE LC FOAMER

Requirements

35 – 100 PSI Water — Up to 2 GPM
20 – 100 PSI Air — Up to 5 – 8 CFM
3/4" I. D. Discharge Hose
110 V Grounded A.C. Outlet

Water Temperature
Ambient to 140° F



Model # 977034
Timed Asphalt Release LC Foamer Complete
(with 25' hose, foam wand, and 50250 nozzle)

Water pressure a problem? Ask about our Timed Electric Asphalt Release Sprayers and Airless Foamers.

INSTALLATION AND OPERATION INSTRUCTIONS

TIMED ASPHALT RELEASE LC FOAMER

IMPORTANT: FOAMER SUPPLIED WITHOUT A BACKFLOW PREVENTER

TO PREVENT POSSIBLE CHEMICAL BACK UP INTO THE WATER SYSTEM, COMPLY WITH LOCAL PLUMBING CODES AND INSTALL APPROPRIATE BACKFLOW PREVENTER.

CAUTION: ALWAYS OBSERVE GOOD SAFETY HABITS. DIRECT DISCHARGE ONLY IN THE TRUCK BED. DO NOT OVERAPPLY CHEMICAL.

TO INSTALL (See Parts Diagram, Facing Page)

1. Mount the foamer and push button to a suitable surface.
2. **Foamer supplied without a backflow preventer. Install appropriate backflow preventer.** Then plumb your 35 – 100 PSI water supply to the garden hose fitting located on the right of the control box. Connect your air line to the control box as shown in the diagram. Do not plug in.
3. Connect the hose to the hose barb and the wand assembly as shown in the diagram. [**Hose must be 3/4" I.D.**]
4. *Stapled to these instructions, with a matching color-coded chart, are metering tips which control your chemical to water dilutions. You will need to know the water pressure and the number of ounces of chemical needed per gallon of water to determine the correct tip color. (See chemical label for manufacturer's recommendation.)*
 - A. Locate your water pressure in the chart. The number below it is your water flow rate in **gallons per minute**.
 - B. Multiply the **gallons per minute** by the number of **ounces of chemical needed per gallon** of water.
 - C. Match your answer to the *nearest* number in the metering tip selection chart below to determine the tip color. [**Tip selection chart is based on water-thin chemical. Thicker chemicals will require a larger metering tip. If the selected metering tip does not produce desired foam consistency or asphalt releasing results, increase tip size until desired foam consistency and/or asphalt releasing results are achieved or remove the tip.**]

EXAMPLE OF METERING TIP SELECTION Timed Asphalt Release LC Foamer at 60 PSI

- 60 PSI = 1.54 GPM
- 8 ounces of chemical per gallon of water
- 1.54 x 8 oz. = 12.32 ounces of chemical
- 12.32 \cong 12.5 for thin chemical (Burgundy tip) (thicker chemicals will require a larger tip)

- D. Install selected metering tip into tip holder. Next, push the chemical tube over the tip holder and close cover. Retain the remaining tips for future adjustments. Immerse the chemical strainer into your chemical concentrate.

5. Make sure the Control Box (right box) is not plugged in to the power source. Open the cover. Unwrap the timers. Install the timers in the timer bases. Set the timers by pushing the combination of timer switches that will equal the total number of seconds you need. Set Timer #2 (right) for the amount of time needed to foam truck bed. Set Timer #1 (left) for the amount of time set on Timer #2 PLUS the amount of time needed for delay between applications. Securely close the cover latch.
6. Plug the power cord into a 110 V grounded A.C. Outlet. Turn on the water and air supply.

TO OPERATE

When the remote button is pressed, the unit is activated for the time set on Timer #2 (Run). Timer #1 (Delay) will prevent the unit from activating again until the time set on Timer #1 runs out. The unit will automatically time out then reset.

1. While holding the wand, point the discharge away from yourself and others. Push the remote push button to activate the unit. Foam consistency can be changed by adjusting the air pressure.

AIR REGULATION PROCEDURES

Air pressure is very important for proper operation; air pressure must be LOWER than water pressure. Pull out adjustment knob on **air regulator**, and turn it *slowly clockwise* to increase air pressure until desired foam consistency is achieved. Make only slight adjustments, then wait to see the results. If the flow of foam surges and/or hose "bucks," decrease the air pressure by *slightly* turning the regulator **counterclockwise** until the foam stabilizes. "Fine tune" your adjustments by making *slight* turns **clockwise and/or counterclockwise** until foam is desired consistency. Once adjustments are made, push lock **air regulator**. If foam consistency is too wet or hose is still "bucking," try installing a larger **metering tip** and/or see Troubleshooting Guide (pg. 4).

2. Foam the entire truck bed. **Do not overapply chemical.** The unit will automatically time out then reset.

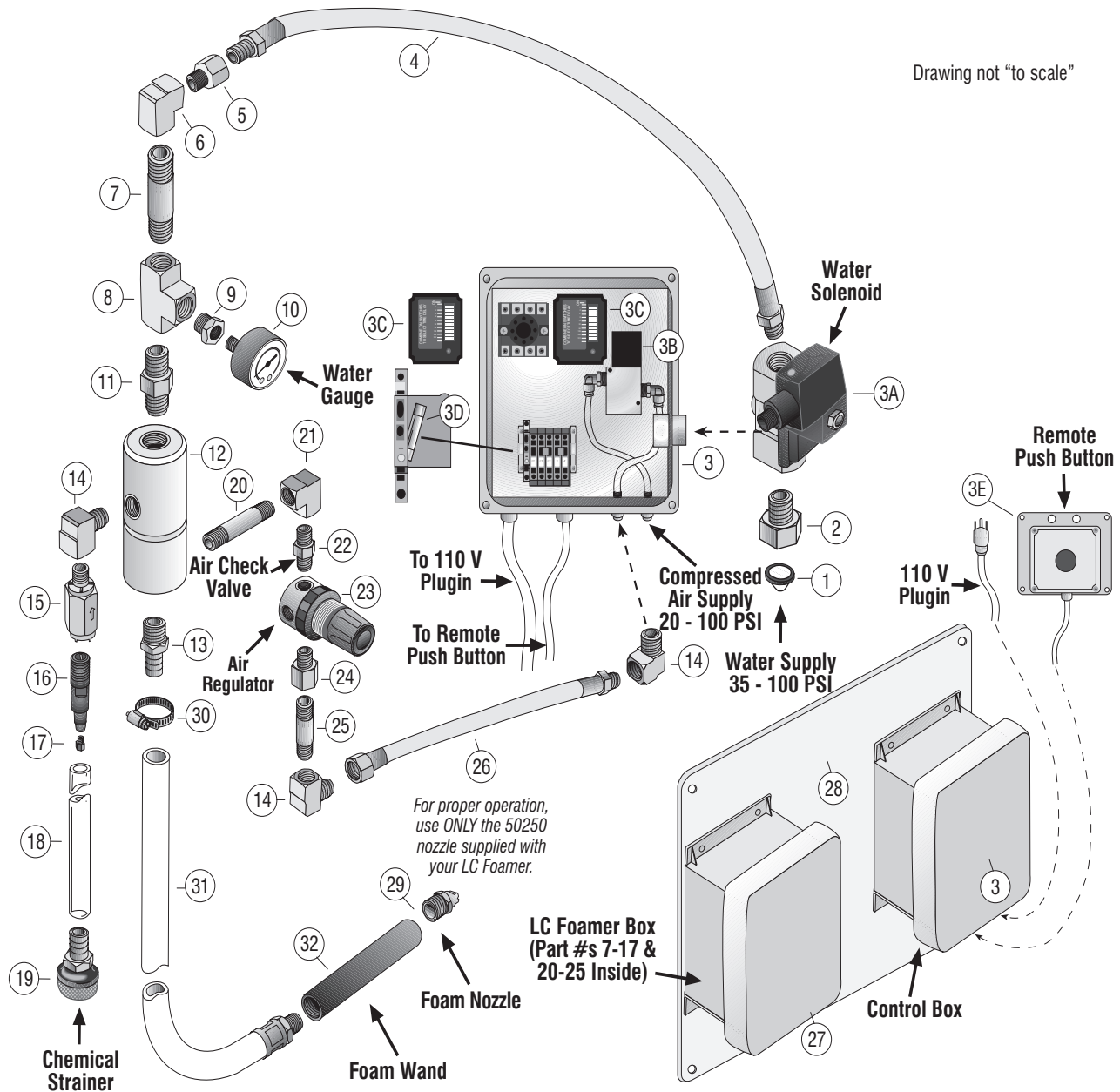
WATER PRESSURE	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI
LC FOAMER WATER FLOW RATE	1.34 GPM	1.46 GPM	1.54 GPM	1.59 GPM	1.76 GPM	1.80 GPM	1.91 GPM

The number under each color in the chart below represents the **average ounces of water-thin chemical which will pass through the tip per minute.**

METERING TIP SELECTION IN OUNCES PER MINUTE (AVERAGE)

COLOR	Brown	Clear	Bright Purple	White	Pink	Corn Yellow	Dark Green	Orange	Gray	Light Green	Medium Green	Clear Pink	Yellow Green	Burgundy	Pale Pink	Light Blue	Dark Purple	Navy Blue	Clear Aqua	Black
Thin Chemical	0.84	1.16	1.4	2.0	2.7	3.4	4.0	5.3	6.1	7.0	8.5	9.2	11.2	12.5	12.9	14.2	17.6	21.4	30.2	40.4

TIMED ASPHALT RELEASE LC FOAMER COMPLETE



QTY.	CALL #	DESCRIPTION	PART #	QTY.	CALL #	DESCRIPTION	PART #
1	1	ADAPTER WASHER, GH, W/SCREEN	102050	1	15	CHECK VALVE, 1/4", MF PVC W/ HAST.	491400
1	2	ADAPTER, FGH x 1/2" MPT	102027	1	16	METERING TIP HOLDER	491308
1	3	CONTROL BOX, TIMED FOAM W/ D & R	291080	1	17	METERING TIPS, SET (20)	443798
1	3A	SOLENOID, BURKERT, 120 VOLT, 1/2"	720275	1	18	TUBE, CHEMICAL, 7/16" x 10'	474748
1	3B	SOLENOID, AIR, HUMPHREY	720200	1	19	STRAINER, MONEL, 3/8", W/ ADAPTER	150119
2	3C	TIMER, INFITEC, W/INITIATE START	720170	1	20	NIPPLE, SS, 1/4" x 2 1/2"	429704
1	3D	FUSE, 3-AMP	720070	1	21	ELBOW, 90°, 1/4"	257358
1	3E	REMOTE PUSH BUTTON WITH 30' CORD	720832	1	22	CHECK VALVE, AIR, NPB, 1/4"	491302
1	4	HOSE, 1/2" x 26", 1/2" & 3/8" MPT	195209	1	23	REGULATOR, AIR, 1/4"	288360
1	5	SWIVEL, NPB, 3/8" x 3/8"	243347	1	24	ADAPTER, 1/4" x 1/4" MxF	102039
1	6	ELBOW, 90°, 3/8"	257360	1	25	NIPPLE, SS, 1/4" x 1 1/2"	429703
1	7	NIPPLE, SS, 3/8" x 2"	429713	1	26	HOSE, AIR, 1/4" x 10", MxF	195170
1	8	TEE, 3/8"	677482	1	27	ENCLOSURE, 8 x 8 x 10, FIBERGLASS	226625
1	9	BUSHING, 3/8" x 1/4"	305216	1	28	MOUNT BASE, 14" x 25", POLY	222170
1	10	GAUGE, WATER, 1/4"	336333	1	29	NOZZLE, 1/2" - 50250	180152
1	11	NIPPLE, HEX, 3/8"	429689	1	30	HOSE CLAMP, 3/4" (SIZE 12)	134306
1	12	FOAMER BODY, LCHC, POLY	212102	1	31	HOSE, 3/4" x 25', 1/2" MPT (ONE END)	803725
1	13	HOSE BARB, 3/4" x 1/2" MPT	119281	1	32	WAND, FOAM/SAN, POLY, 14", FxF	536603
3	14	ELBOW, ST., 1/4"	257378	1	NOT SHOWN	U-BOLT ASSEMBLY, # 6 SQUARE	392486

TROUBLESHOOTING GUIDE

for

TIMED ASPHALT RELEASE LC FOAMER

PROBLEMS	POSSIBLE CAUSE / SOLUTION																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A) Foamer will not draw chemical.	•			•		•	•	•	•	•			•	•	•	•		•	•	•		
B) Foam surges and/or hose "bucks."	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•				
C) Foam output too wet.			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
D) Water flowing into chemical container.										•												
E) Water/chemical backing up into air line.					•																	
F) Timer light comes on but no water through the solenoid.											•								•		•	•
G) Foamer doesn't start when remote button is pushed.										•										•	•	•
H) Foamer comes on and runs continuously.																					•	•

POSSIBLE CAUSE / SOLUTION

- | | |
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| <ol style="list-style-type: none"> 1. Air pressure too high for available water pressure – Adjust the air regulator slowly counterclockwise. 2. Use of an oiler on the airline will cause poor foam quality – Use only clean, dry air. 3. Inadequate air supply – Open air inlet valve fully. Adjust air regulator slowly clockwise. 4. Air regulator clogged or failed – Clean or replace the air regulator. 5. Air check valve clogged or failed – Clean or replace the air check valve. 6. Water pressure fluctuating – Install a water regulator to stabilize pressure. 7. Foam hose too long or wrong size or kinked; must be 3/4" I.D. – For pressures below 40 PSI, 25' is the maximum length recommended; for pressures over 40 PSI, 40' is the maximum. Straighten the hose. 8. Nozzle size too small – Must be a 50250 nozzle. 9. Water inlet valve not completely open – Completely open the water inlet valve. 10. Solution check valve clogged or failed – Clean or replace solution check valve. 11. Water inlet screen clogged – Disconnect foamer from water source. Clean or replace screen. 12. Improper chemical – Ensure product is recommended for foaming and/or the application. | <ol style="list-style-type: none"> 13. Chemical tube not immersed in chemical or chemical depleted – Immerse tube or replenish. 14. Chemical strainer or metering tip blocked – Clean or replace chemical strainer and/or tip. 15. Chemical tube stretched out where tube slides over check valve or pin hole/cut in chemical tube – Cut approximately 1/2" off upper end of tube or replace tube. 16. Vacuum leak in chemical pick-up assembly – Tighten the connection(s). 17. Chemical to water ratio too low – Install larger tip. 18. Water scale or chemical build-up may have formed in the foamer body causing poor pick-up – To descale, carefully remove body and soak <i>entire</i> foamer body in descaling acid. 19. No water to the unit – Ensure that the water supply to the unit is not shut off. 20. May have electrical problems; fuse blown or breaker thrown – Check to be certain that you have 110 volts coming in to the control box. Ensure the fuse (3 amp) is good. 21. Timers not set properly or failed – Ensure that both T1 and T2 are plugged into their bases. T2 sets the run time. T1 sets the delay time. (See page 2.) Replace the timers if failing. 22. Solenoid failed or stuck open – Replace the solenoid. |
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