TROUBLESHOOTING

The following table summarizes different troublesome conditions.

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>POSSIBLE CAUSES</th>
<th>SOLUTIONS</th>
</tr>
</thead>
</table>
| 1. Compressor will not turn on | A. Corroded connections  
B. Disconnected  
C. Improperly wired  
D. Blown fuse | A. Inspect and clean  
B. Check wiring  
C. Check wiring diagram  
D. Replace fuse |
| 2. Foam does not come out from nozzle | A. No concentrate in tank  
B. Tank cap loose  
C. Compressor filter clogged  
D. Strainer in tank clogged | A. Add concentrate in tank  
B. Tighten cap  
C. Clean or replace filter  
D. Clean or replace strainer |
| 3. Foam ball does not form completely | A. Soap concentrate too low  
B. Restrictor not in place  
C. Water too hard | A. Dump and remix higher  
B. See foam nozzle assembly in parts breakdown  
C. Use water softener with concentrate |
| 4. Compressor does not start when switching side | A. Check valve broken on tank cap  
B. Switch broken | A. Try cleaning cap check valve by blowing air. If problem persists change cap  
B. Change switch |
| 5. Foam marker is off but air or liquid are still coming out | A. Valves are dirty  
B. Valves are broken | A. Blow air in the valves  
B. Replace broken valves |

COMPONENTS

The FM-64 has the following major components:

1. 6.5 gal. tank
2. Power supply & compressor cable
3. Foam nozzle assembly
4. Air-liquid tubing
5. Right and left (on-off-on) switch box
6. 12 Vdc diaphragm air compressor

OPTIONAL KITS

The FM-64 has one optional kit (not included in package):

- 15 ft. extension compressor cable

Note: Please call your distributor to order the optional kits.

www.cds-johnblue.com  1-800-253-2583

INSTALLATION PROCEDURES

IMPORTANT: Read all instructions before installing and operating the foam marker.

DIMENSION & WEIGHT

The weight of the FM-64 is 42 lbs. empty. Below you will find the overall dimensions.

INSTALLATION OF SWITCH BOX AND POWER SUPPLY

- Determine the best location for the selector switch box in the tractor cab.
- Determine the best rout for the power cable. Make sure it is away from operator’s movement area, away from moving parts and away from sharp objects.
- Using 3 bolts 1/4” (not included) and the provided slots, mount the switch box at the desired location.
- Connect one side of the power supply cable to the switch box (the side with the connector). Finally, connect the other end of the power supply cable (red wire) to the “+” side of the battery and the black wire to the “−”.

GENERAL INSTALLATION INSTRUCTIONS

The Foam Marker can be easily installed horizontally on the sprayer. However as a general rule it is important to choose a location for the compressor that shields it from exposure to chemicals during spraying operations.
INSTALLATION OF COMpressor AND Tank

Compressor: Using bracket (part 901132) mount the foam marker on a sturdy part of the sprayer structure. Make sure to slide the U-shaped bracket in the provided slot under the compressor. The two threaded holes must go under the compressor. Using the provided bolts (kit 901740), screw the U-shaped bracket with the compressor.

Tank: Mount tank in brackets using brackets 901578 & 901095 and kit 901739. On the tank, U-shaped bracketed with the compressor. Using Kit 800017, one can mount the foam mixer. 901578 & 901095 and kit 901739. On the provided bolts (kit 901740), screw the holes must go under the compressor. Using the two threaded holes (the length of the bolt depends on the thickness of the boom). M6 Bolts are not provided.

INSTALLATION OF FOAM NOZZLE ASSEMBLY

OPTION 1: use complete kit 901674
- Drill two 1/4 inch holes on each side of the boom (approx 5 inch apart)
- Insert two nuts (provided in the kit) in each foam nozzle (one in the top slot and one in the bottom slot)
- Place each foam support on top of the drilled hole.
- Bolt each foam nozzle using M6 bolts (the length of the bolt depends on the thickness of the boom). M6 Bolts are not provided.
- Slide first the rod in the two foam nozzle support, then in the foam mixer.
- Hand-tight the foam nozzle supports with the “L” shaped bolt.
- Using a screw driver, tighten the rod in the foam mixer.

OPTION 2: Use clamps for fixture
For a fast and reliable fixture, one can use clamps to fix the foam nozzle support. Several different clamps might work. However, the following ones have been tested.
Teetee Var-Spacing Clamps:
- QJ111 for round booms
- QJ11SQ for square booms
Delavan Quick Change Boom clamps:
- serie # 50800-1 to 50800-5

INSTALLATION OF AIR-LIQUID TUBING
Before installing the air-liquid tubing on the boom, make sure to take the proper measurements by unrolling the tubing side by side the boom. Do not forget to consider the distance form the compressor to the boom.

Being careful not to cut the tubing, cut the over sleeve back approximately 2” to expose the blue and clear tubing. Next, remove the blue wing nut from the foam. Slide the blue tube all the way over the small nozzle connector and slip it on the blue tube with the thread facing away from the blue tube. Slide the wing nut back to the thread and hand tighten. Follow the same steps for the clear tube and white tube. Finally install the opposite ends of the air-liquid tubes to the compressor.

CONNECTION OF POWER CABLE AND COMPRESSOR CABLE
With the compressor cable connect one end to the switch box and the other end to the compressor. The compressor cable is 23 ft. long. With the power cable connect one end to the switch box and the other end to the disconnect socket. The power cable is 6.5 ft. long.

TANK CAP ONE TURN OR UNTIL AIR IS HEARD LEAKING OUT AROUND CAP OR USE THE PRESSURE RELEASE VALVE.

PRECAUTIONARY STEPS
Flush the system with clean water after each use, especially when hard water has been used. Do not apply lubricating oils, grease or other petroleum products to the compressor motor assembly.

WINTERIZING
Follow the steps written below for proper winterizing:
Step 1: Relieve pressure from tank.
Step 2: Disconnect air and liquid tubing from tank.
Step 3: Connect air and liquid tubing together with supplied tubing coupler.

MAINTENANCE INSTRUCTIONS
CAUTION: BEFORE PERFORMING ANY MAINTENANCE, MAKE SURE THAT THE 4 INCH SUPPLY LINE FROM THE TANK HAS HAD THE PRESSURE BLEED FROM THE SYSTEM. TO DO THIS, UNSCREW THE TUBING COUPELER.

Step 4: Disassemble foam nozzle to replace foam sponges (big and small).

Step 5: Empty tank off all soap to avoid freezing.

OPERATION

SWITCH BOX
The switch box is used to start the compressor and to select the side the foam will be made. To operate simply select “ON” left or “ON” right to direct the foam to the left or right side of the boom. Selecting “OFF” will not drop foam at all.

MIXING SOAP IN TANK & CONTROLLING THE FLOW

CAUTION: CONTENTS IN TANK MAY BE UNDER PRESSURE. WHEN REMOVING CAP FROM TANK, UNSCREW CAP SLOWLY TO RELIEVE PRESSURE OR USE THE INSTALLED RELEASE VALVE.

Remove cap from tank. Fill the tank with the desired amount of water first, and then add soap to avoid making foam in the tank. Replace cap on the tank and tighten hand tight. When preparing soap mixture, one must first desire life span of the foam ball. Temperature, sun light, relative humidity.

Connect air and liquid tubing

Disconnect air and liquid tubing

Relieve pressure from tank.

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