

STEELGREEN[™]

M A N U F A C T U R I N G

INSTRUCTION MANUAL

2 GAL. FOAM MARKER ATTACHMENT

Models: SG42, SG46, & SG52



2 GAL. FOAM MARKER ASSEMBLY INSTRUCTIONS

STEP 1: Disconnect the battery, *ground* first and then *power* wire.



GROUND

POWER

STEP 2: Disconnect and remove the fuel tank.

CAUTION!

-Beware of excess fuel in the lines.

-Fuel spillage.

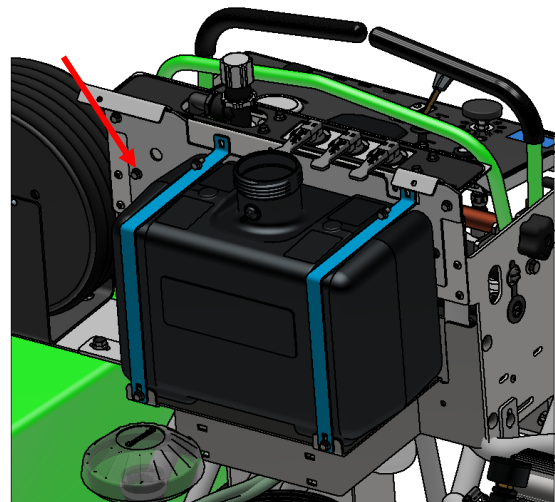
WARNING!

-Flammable gas.



ENGINE SUPPLY LINE

PRESSURE RELIEF

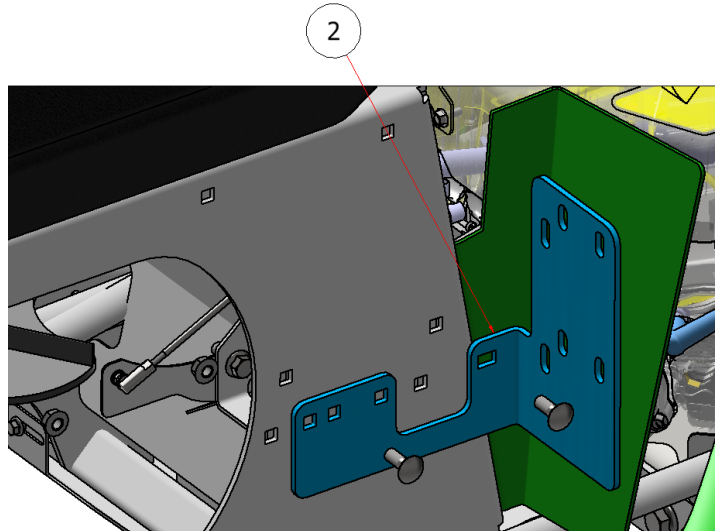


2 GAL. FOAM MARKER ASSEMBLY INSTRUCTIONS

STEP 3:

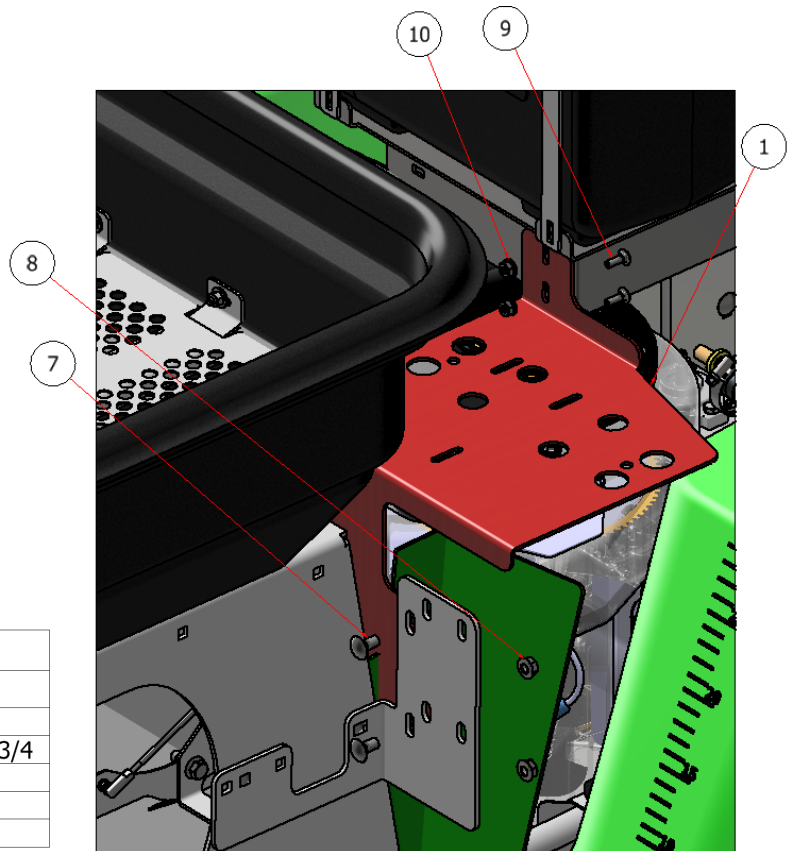
- Attach the lower support bracket to the side of the hopper.

PARTS LIST			
ITEM	QTY	PART NUMBER	TITLE
2	1	R22-112	SG FOAM MARKER SUPPORT



- ### STEP 4:
- Attach the upper support bracket to the lower bracket & fuel tank support.

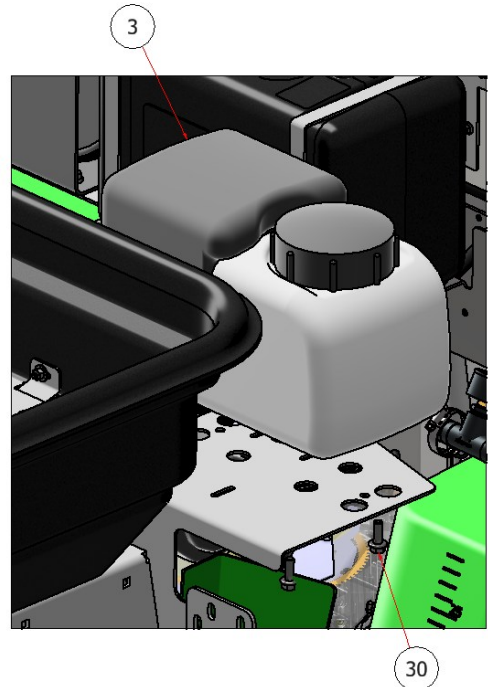
PARTS LIST			
ITEM	QTY	PART NUMBER	TITLE
1	1	R22-060	SG FOAM MARKER MOUNT
7	4	CB-3834SS	CARRIAGE BOLT, SS - 3/8-16 x 3/4
8	2	HFNCS-38S	HEX FLANGE NUT, SS - 3/8-16
9	2	CB-1434	CARRIAGE BOLT, 1/4 X 3/4
10	2	HFNCS-25S	HEX FLANGE NUT, 1/4



2 GAL. FOAM MARKER ASSEMBLY INSTRUCTIONS

STEP 5: Attach the fm assembly to the support bracket

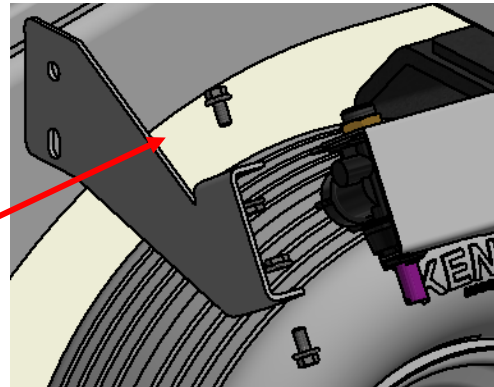
PARTS LIST			
ITEM	QTY	PART NUMBER	TITLE
3	1	MTD 2020	FOAM MARKER, 2 GALLON
30	2	HFSSC-381	HEX FLANGE BOLT, SS - 3/8-16 x 1



STEP 6: Attach the foam marker bracket to the end of the boom.

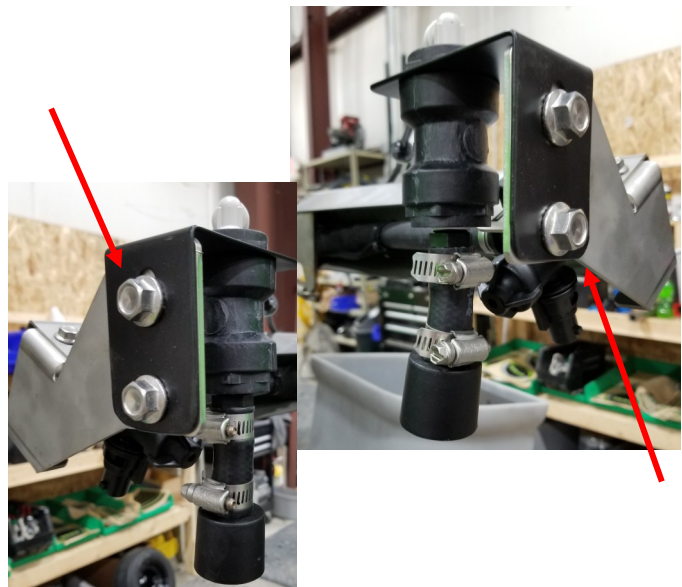
NOTE: Repeat step four for the other side of the boom, and the orientation of the bracket for left and right side.

RIGHT SIDE



NOTE: Repeat step five for the other side of the boom.

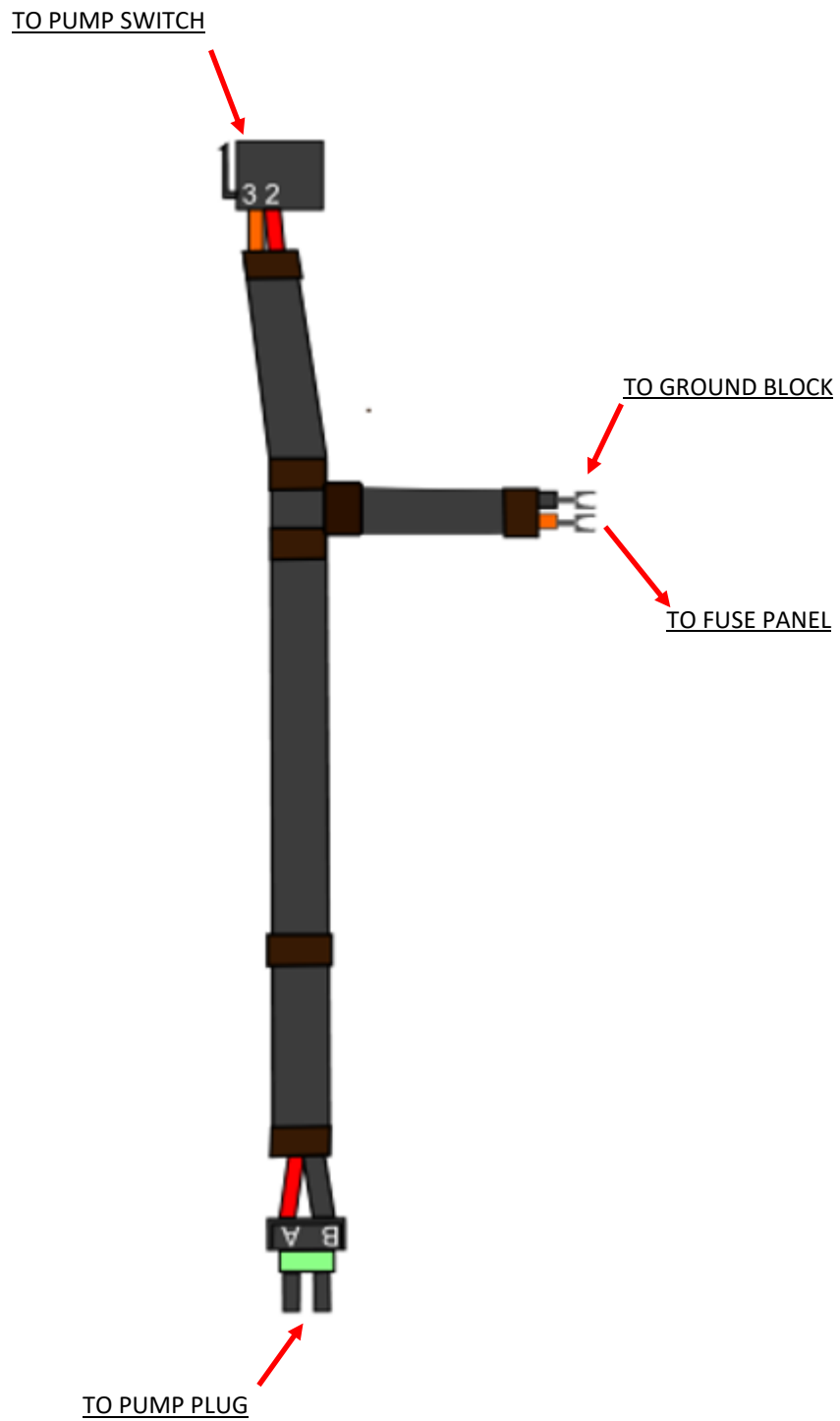
STEP 7: Attach the foam marker assembly to the bracket.



2 GAL. FOAM MARKER ASSEMBLY INSTRUCTIONS

WIRING HARNESS

SG-7G1-2

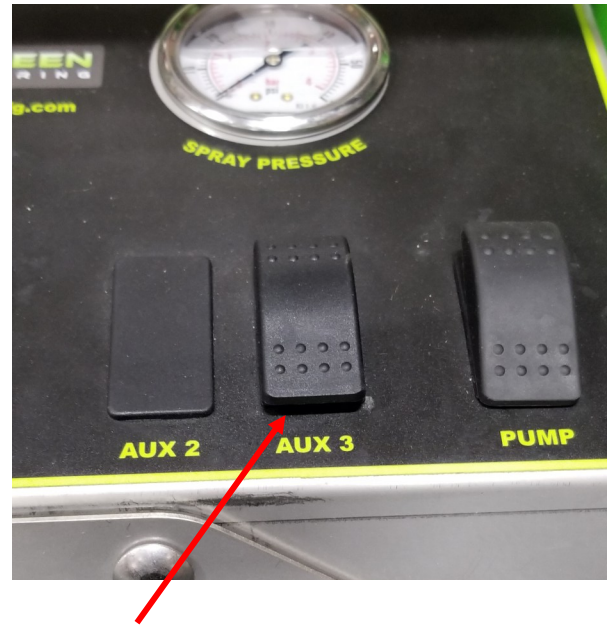


2 GAL. FOAM MARKER ASSEMBLY INSTRUCTIONS

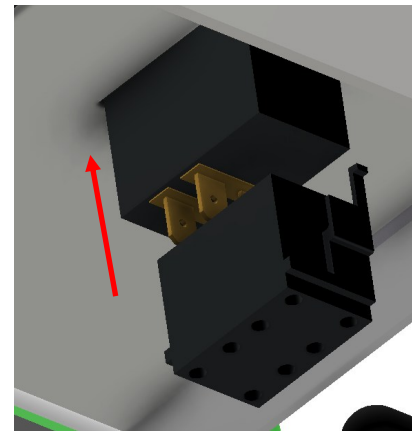
STEP 8:

- Using an exacto or utility knife, cut the dash decal to reveal the opening for the “AUX 3” position.
- Attach the “rocker switch” to the dash panel.

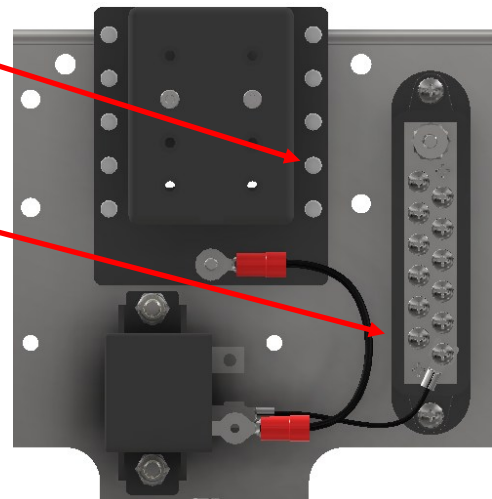
NOTE: *The long side of the rocker switch should face*



STEP 9: Plug the wiring harness into the rocker switch.

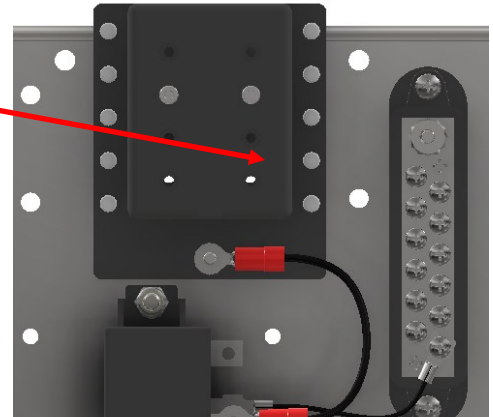


- Connect the power wire to port 9 on the fuse block (See Fig. 1).
- Connect the ground wire to the ground block.



2 GAL. FOAM MARKER ASSEMBLY INSTRUCTIONS

- Attach the proper fuses according to the chart
- Attach the clear cover to the fuse block.

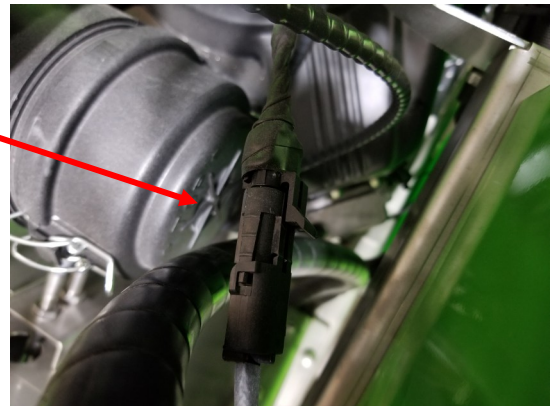


PORT	SG 52 SERIES FUSE BLOCK		PORT
1	SPRAY PUMP 1 25 AMP	USB PORT 5 AMP	6
2	SPRAY PUMP 2 25 AMP	SPRAY PUMP SWITCH 25 AMP	7
3	7 GAL. LEFT 25 AMP	SPEEDOMETER 1 AMP	8
4	7 GAL. RIGHT 25 AMP	FOAM MARKER 25 AMP	9
5	HSA 10 AMP	HEADLIGHT 10 AMP	10

Fig. 1

STEP 10:

Connect the plug from the harness to the foam marker pump plug.



2 GAL. FOAM MARKER ASSEMBLY INSTRUCTIONS

STEP 11:

- Reconnect the battery *power wire* first along with the *yellow power wire* from the wiring harness, and then reconnect the *ground wire*.



GROUND

POWER

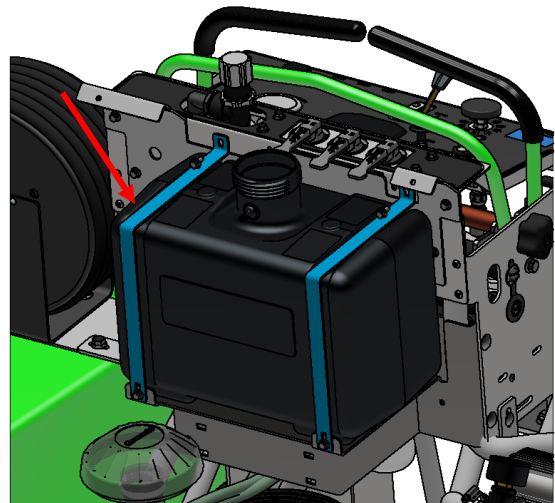
- Reinstall and connect the fuel tank.

CAUTION!

- Beware of excess fuel in the lines.
- Fuel spillage.

WARNING!

- Flammable gas.



ENGINE SUPPLY LINE

PRESSURE RELIEF



2 GAL. INDEPENDENT SPRAYER ASSEMBLY INSTRUCTIONS

STEP 12:

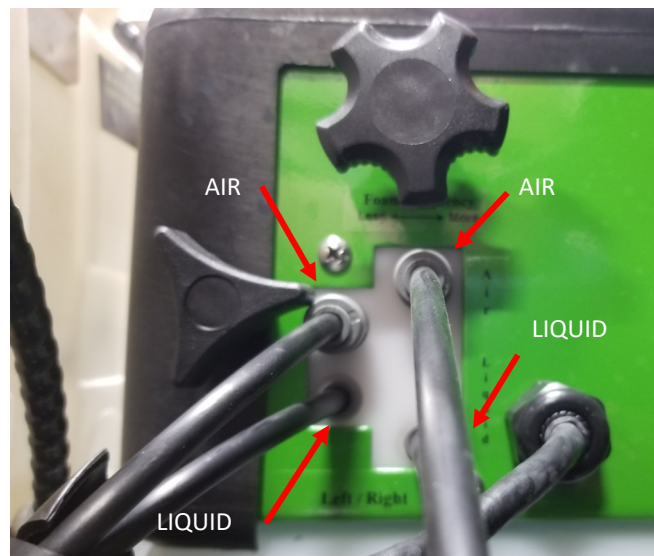
- Connect the “y” adapter assembly to the *push lock elbow fitting* on the foam marker.
- Using the supplied tubing and hose wrap, cut and route the tubing from the “y” adapter along the frame and up to the foam marker. *Be sure to leave enough tubing for the boom to extend, fig. one.*



Fig. One

- Connect the tubing to the foam marker, the top is air and the bottom is liquid *for both left and right side.*

NOTE: Repeat step eleven for the other side of the boom.



2 GAL. INDEPENDENT SPRAYER ASSEMBLY INSTRUCTIONS

OPERATION

FILLING THE TANK

CAUTION!

- *Wear safety goggles & all proper clothing when operating, servicing or refilling this machine.*
 - *Always read & follow manufactures recommendations when handling any chemical.*
 - *Do not pump combustible liquids or vapors with this product.*
 - *When filling the tank, add WATER FIRST and then FOAMING AGENT.*
- Be sure the power is off and remove the cap from the top of the tank.
 - Starting with a small amount of water (2 gal.), mix the foam concentrate according to the label directions on the foaming agent. If considerably more concentrate is needed above the manufacturer's suggested ratio (usually 2-5 ounces per gallon) to produce good foam, use of a softener or soft water may be required. If the foam is too stiff or (dry), it may surge out at irregular intervals. Under this condition. Add water until the foam becomes more wet.
 - Replace the cap on the tank.



NOTE: *Mixing foam takes some experience. Different water sources may require different amounts of concentrate to obtain the desired foam density. Water hardness, pH, and impurities will affect the rate of concentrate required for a consistent, long-lasting foam.*

Different conditions may require different mixing ratios to produce desirable results. It's worthwhile to determine the proper foam/water mixing ratio for your water source with the initial filling. Doing so will save time in the future and aid in consistent foam quality.

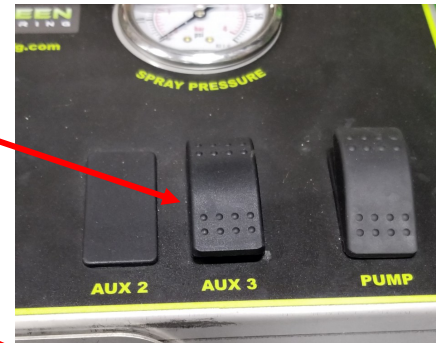
If hard water is a problem, commercial softening agents are available. You can make your own softening agent by dissolving a commercial water softening powder (available at most grocery stores) in hot water and adding a portion of the mixture to your tank each time you fill. Experimentation will reveal the correct amount to use. A good starting point is 1-1/2 ounces per gallon of water.

Mix ratios for foam concentrates advertised as 80:1 or 160:1 must be adjusted for use with your water. Such ratios are only a guideline.

Heat, humidity, & wind will also affect the life of the foam. Using a good quality marking agent, such as RUNWAY, may be very important. Liquid dish detergent also works in the foam marker system. You will have to experiment with detergents before using on any special turf applications.

2 GAL. INDEPENDENT SPRAYER ASSEMBLY INSTRUCTIONS

- Start the machine and activate the foam marker and let it prime until it starts dropping suds.



A

- Turn the foam marker and machine off, Adjust the foam marker for desired timing.



A - Flow control valve,

- Rotate the knob clockwise to *decrease* foam output.
- Rotate the knob counter-clockwise to *increase* foam output.

TROUBLE SHOOTING

PROBLEM	SOLUTION
NOT ENOUGH FOAM	<ul style="list-style-type: none"> ADD MORE FOAM CONCENTRATE TO THE TANK. CHECK FOR HOLES IN THE AIR LINE. CHECK FOR PINCHED AIR OR LIQUID LINES. CLEAN SCREEN-STRAINER/FOAM HEAD. ADJUST THE LIQUID FLOW CONTROL VALVE.
WET FOAM	<ul style="list-style-type: none"> ADD MORE FOAM CONCENTRATE TO THE TANK. CLEAN SCREEN-STRAINER/FOAM HEAD. REDUCE LIQUID FLOW
FOAM IS SURGING	USE LESS CONCENTRATE.
FOAM DOES NOT LAST LONG ON THE GROUND	<ul style="list-style-type: none"> ADD MORE FOAM CONCENTRATE TO THE TANK. USE A HIGH QUALITY FOAM CONCENTRATE LIKE RUNWAY. USE COLLECTOR HEADS.
BLOWING FOAM IN WENDY WEATHER	<ul style="list-style-type: none"> USE LESS CONCENTRATE TO MAKE WETTER FOAM. ADD MORE WATER TO FOAM SOLUTION INCREASE THE LIQUID FLOW.



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MANUAL	MANUAL	DESCRIPTION	KIT
SGM-002	5	2 GALLON FOAM MARKER SG 46/52 KIT	P10020