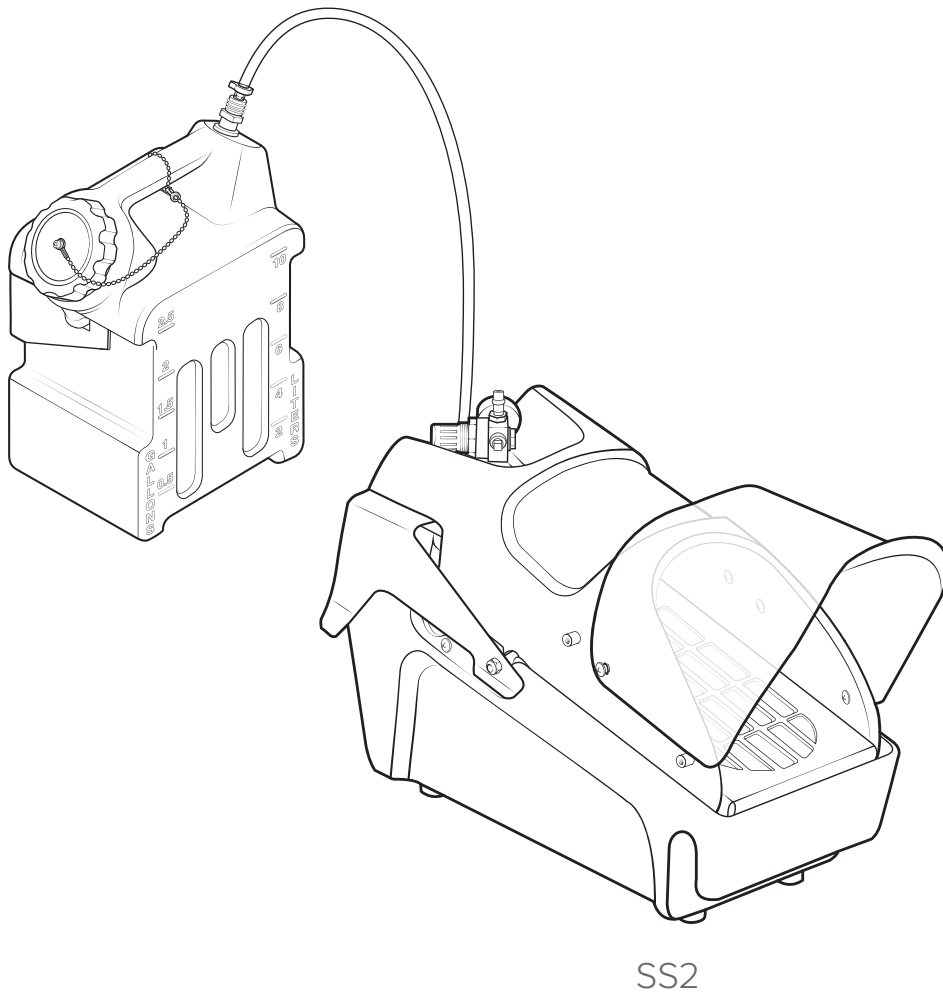
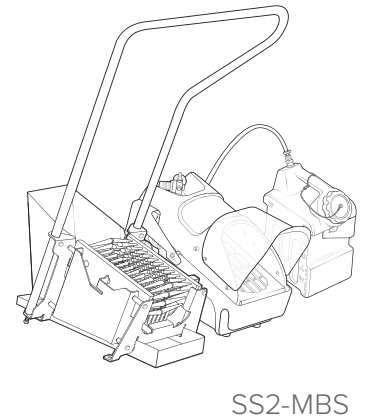
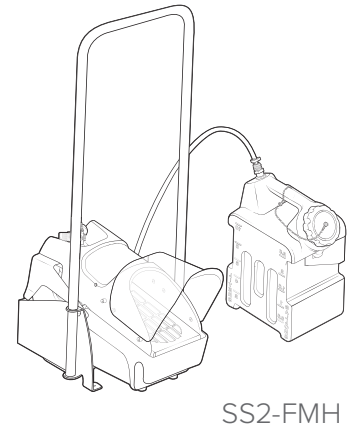
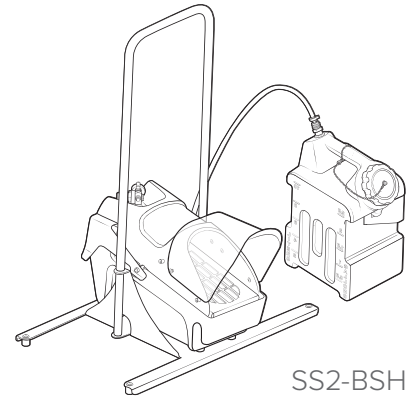


Air Powered Footwear Sanitizing Unit

Service Manual SS2



READ ALL INSTRUCTIONS BEFORE USING OR
SERVICING THIS UNIT. KEEP THIS MANUAL IN A
LOCATION THAT IS READILY AVAILABLE TO USERS
AND SERVICE TECHNICIANS.

English (Original Instructions)



Scan this code for
service manual



Safety

WARNING

PEOPLE OR OBJECTS CAN BE HURT OR DAMAGED IF THIS UNIT IS NOT USED CORRECTLY!



Failure to read all the instructions before operating the unit may result in personal injury or death from the improper use or the chemical solution. Anyone handling, operating or using the unit must read and understand the instructions in the manual. The buyer assumes all responsibility for safety and proper use in accordance with the instructions.



Using or servicing the unit without appropriate personal protective equipment (PPE) may result in serious injury such as burns, rashes, eye, throat or lung damage and death. Always wear PPE as indicated in the Safety Data Sheet (SDS) when using or servicing the unit. Protect eyes, skin, and lungs against drifting spray.



To prevent chemical spray to face and eyes, ensure full foot insertion into unit and press down with heel. Wear splash goggles as directed by chemical manufacturer, SDS, or OSHA.

This unit is for use with fully protective footwear only. This unit is designed to help sanitize footwear at transition zones with a focus on reduced moisture. This unit is intended to sanitize shoe soles and not intended for any other use.



Chemical solutions may pose a health risk and death if they contact the skin or eyes, are inhaled or swallowed. Always read and follow all chemical safety precautions and handling instructions provided by the chemical manufacturer and the SDS associated with the chemical solution before using the unit.



Pressure within the equipment may cause an unexpected release of the chemical solution and cause serious injury such as burns, rashes, eye damage, throat or lung damage and death. Always disconnect the air line from the unit before performing any maintenance, and clean the unit after each use.

Using the unit with fluid temperatures above 100°F (37.8°C) may result in scalding, burns, serious injury or death. DO NOT use a solution with a temperature above 100°F (37.8°C).



Operating the unit when damaged or leaking may result in exposure to chemical solutions, serious injury or death. Never use the unit if it is damaged or leaking.

Use of hydrocarbons and flammable products may result in explosions, fire and serious injury or death. Never use hydrocarbons or flammable products with the unit.

NOTICE

Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

This unit is for use with fully protective footwear only.

PROTECT THE ENVIRONMENT



Please dispose of packaging materials, old machine components, and hazardous fluids in an environmentally safe way according to local waste disposal regulations

Service Guide

WARNING

Performing any maintenance with the unit pressurized may result in serious injury. Before conducting any maintenance, always ensure the unit has been depressurized by disconnecting the air line on the unit. Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit. Remember to reconnect air line, and re-prime the unit according to the priming instructions in the operation manual after performing any maintenance.

Maintaining Your Unit

To keep your unit operating properly, perform the following daily maintenance procedures:

For SS2, SS2-BSH, SS2-FMH, and SS2-MBS units:

- Inspect the stainless foot grate for debris and clean when necessary.
- Collection basin should be emptied and cleaned each time the chemical supply container is changed or refilled. See **Collection basin cleaning instructions** for more information.

Note: During heavy use, over-spray can fill up basin. Be mindful of fluid levels not reaching above manifold, this can cause the unit to operate improperly.

- Verify nozzle assembly is free of any debris or blockage. Rinse with low pressure water if necessary.
- Check suction line and strainer for debris. Clean as needed.
- Inspect all tubing for leaks or excessive wear. Make sure all hose clamps and push fittings are in good condition and properly secured.

For SS2-MBS units only:

- Remove brushes by lifting them out from the brush bracket. Remove debris and clean. Brushes should be replaced every 6 months depending on wear.
- Slide out debris tray. Empty debris and wipe clean.
- Base assembly of unit is fully stainless and can be cleaned in place by method suitable for stainless steel.

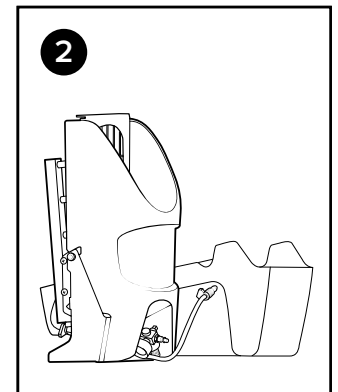
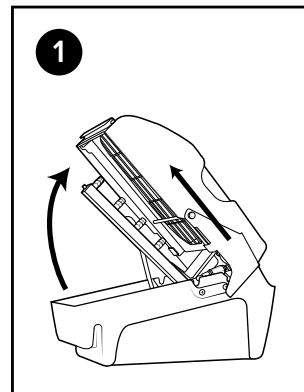
Collection basin cleaning instructions:

1. Lift the shroud upwards to raise the top half of the unit. Then, slide the top half away from the bracket to detach it from the housing.

2. Place the top half of the unit to the side.

Note: Stand the top half of the unit on short end. Setting the unit down in other position may cause damage to nozzle assembly.

3. Empty and clean the collection basin.
4. Re-insert the top half of the unit by repeating step 1 in reverse order.



Servicing Your Unit

Most repairs on the unit can be performed with the following tools:

- Crescent wrench (2x)
- $\frac{7}{16}$ in. (11 mm) socket wrench
- $\frac{9}{16}$ in. (14 mm) socket wrench
- #2 Phillips head screwdriver
- Thread seal tape
- Hose cutters
- Knife

Troubleshooting Your Unit

If your unit is not operating properly, try using these troubleshooting tips:

Issue	Solution
If the unit does not spray	• Check valve stem and roller cam for proper movement and compression. • If the pump is cycling, but unit does not spray, the pump may be air locked. • Verify pump springs are not worn or broken. • Check the suction line and strainer for debris and clean if necessary. • Verify the jug the unit is pulling from is vented, and filled appropriately. • Ensure nothing is blocking or impeding the full motion of the mechanism.
If the unit sprays irregularly	• Verify that the unit is connected to an appropriate compressed air source. Unit requires 40 psi (2.8 bar) with 1 CFM (28.3 l/min) to operate. To maximize unit lifespan and performance, compressed air should be clean and dry. Note: If the air source has a high moisture content, you may wish to install a water separator before the unit. • Verify the pump is cycling regularly. Pump can be disassembled and the o-rings can be re-lubricated with a silicone-based lube. • Ensure the springs in the pump are not worn or broken. • Check the spray tips and make sure they are not clogged or blocked by debris. The spray tips may be removed and cleaned if necessary. • Verify that the jug the unit is pulling from is vented, and filled appropriately.
If the unit does not hold a prime	• Check hose clamps and ensure that barbs are secure. • Check all tubing connections and verify none are loose, broken, or leaking.

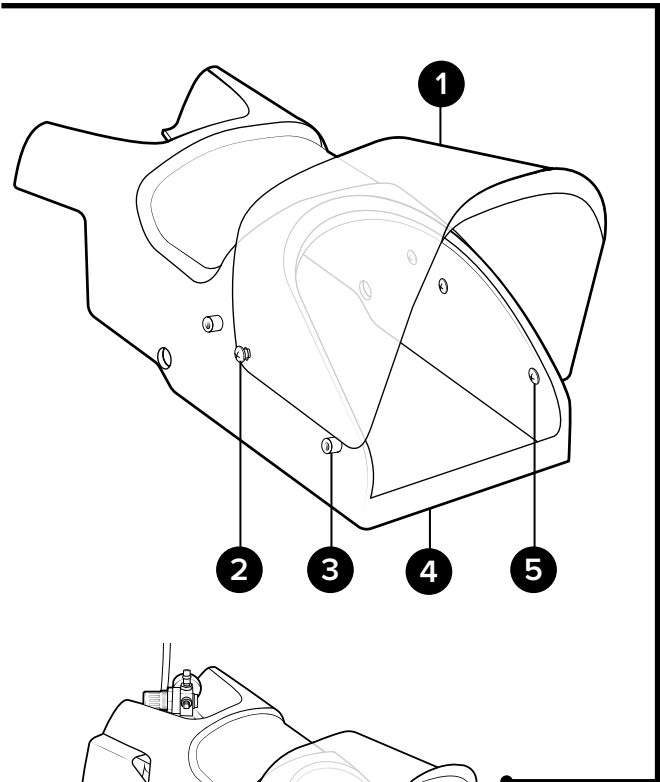
Shroud and Housing Assemblies

SHRA-SS2:

Shroud assembly for SS2 - includes shroud with spray guard, and mounting hardware

Item number		Description
1	SPGRD-SS2	Spray guard for SS2
2	BPB142038	¼-20 x ¾ in. binding post barrel - stainless - truss head Phillips
3	SO142012	¼-20 x ½ in. threaded standoff - stainless
4	SHR-SS2	Shroud - SS2 - drilled out - includes warning and brand combo label
5	B142012-VS	Bolt - ¼-20 x ½ in. - stainless steel truss head Phillips - Vibra-Seal

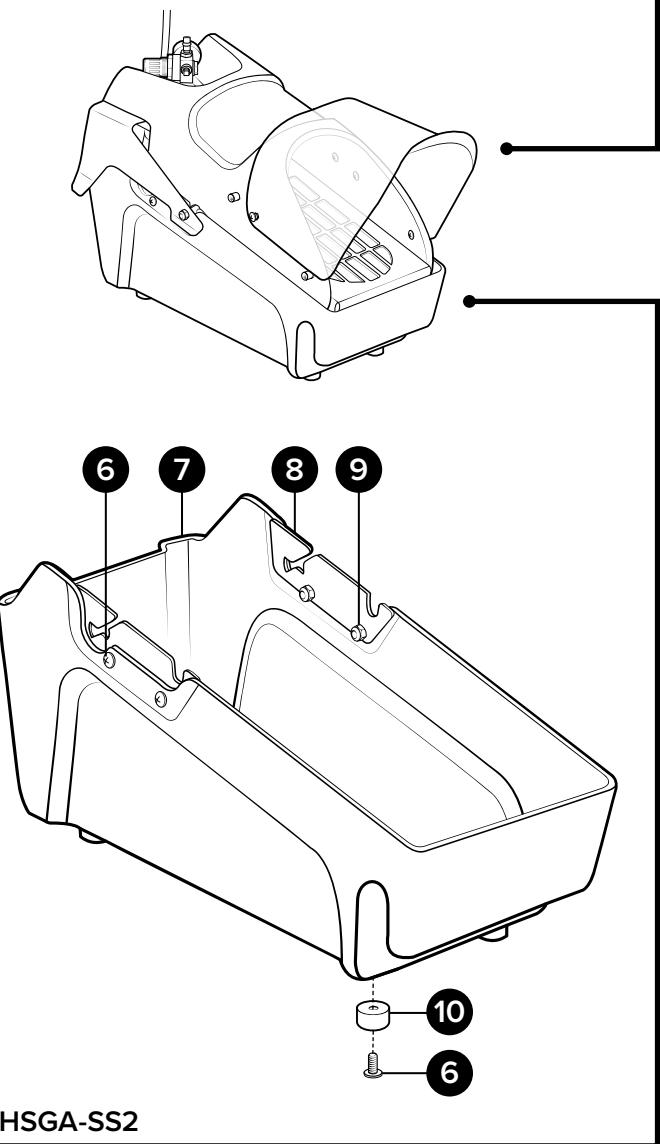
SHRA-SS2



HSGA-SS2:

Housing assembly for SS2 - includes mechanism mounting plate, rubber feet, and mounting hardware

Item number		Description
6	B142058-VS	Bolt - ¼-20 x ⅝ in. - stainless steel truss head Phillips - Vibra-Seal
7	HSG-SS2	Housing for SS2 - includes warning label
8	MPL-SS2	Mount plate for SS2 - stainless steel
9	LN1420	Locknut - ¼-20 - stainless steel - nylon insert
10	RFT12	Rubber foot - ½ in. tall - includes internal washer



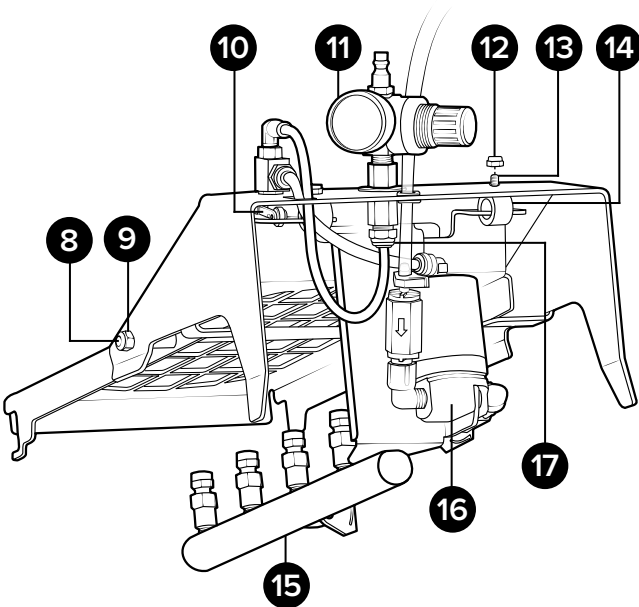
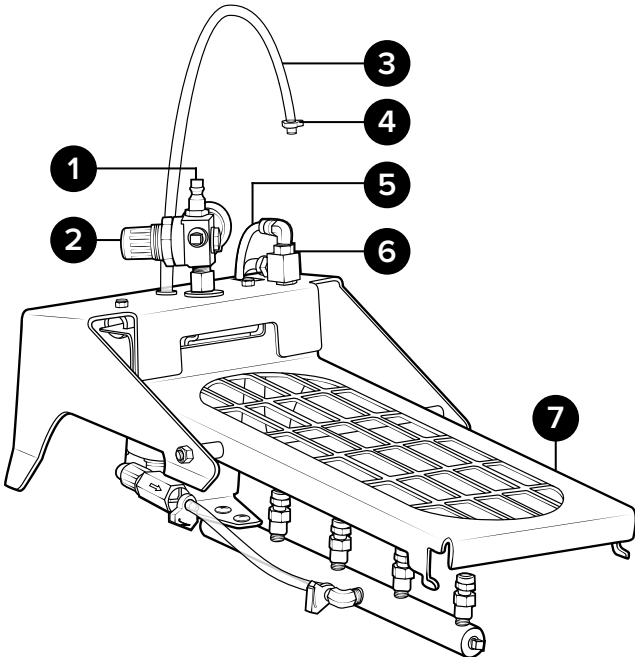
HSGA-SS2

Mechanism Assembly

MCHA-SS2:

Mechanism assembly for SS2 - includes fluid pump, mounting hardware, and air connection

Item number		Description
1	AP14	Air fitting - ¼ in MPT quick disconnect hose coupling plug - nickel-plated brass
2	R16	Regulator - air - 2x ¼ in. FPT and 2x ⅜ in. FPT ports - no bowl and filter - no gauge
3	H14CL-PV	¼ in. id ⅜ in. od clear hose - PVC - available per ft.
4	CLMPTB38-ADJ	Clamp - plastic - for ⅜ in. od tube - adjustable
5	TB14BL-PU	¼ in. od blue tube - polyurethane - available per ft.
6	VLVA-3W2P-SS2	Valve assembly - 3 way 2 position - SS2 - includes tooth washers and nuts
7	GRT-SS2	Grate - SS2 - stainless steel
8	TRD5161114	⅝ in. od x 11 ¼ in. long threaded rod - ⅝-18 end threads - stainless
9	LN516	Locknut - ⅝-18 - stainless steel - nylon insert
10	ACVB-3W2P-RCA	Air control valve - nickel-plated brass - 3 way 2 position - roller cam actuator
11	AG100	Air gauge - ⅜ in. NPT - 0-100 psi markings - dry model
12	LN1032	Locknut - 10-32 - stainless steel - nylon insert
13	B103212-PH	Bolt - 10-32 x ½ in. - stainless steel - pan head Phillips
14	RSPG1	Radial spring - 1 in. dia - rubber
15	MNA-SS2	Manifold assembly - SS2 - SS check valves and spray tips includes fitting and plug
16	PMPA-FLD-SS2	Pump assembly - SS2 - fluid - includes spring and seals
17	QF14P	Quick fit - ¼ MPT x ¼ od tube - polypropylene



Mechanism Sub-assemblies

MNA-SS2:

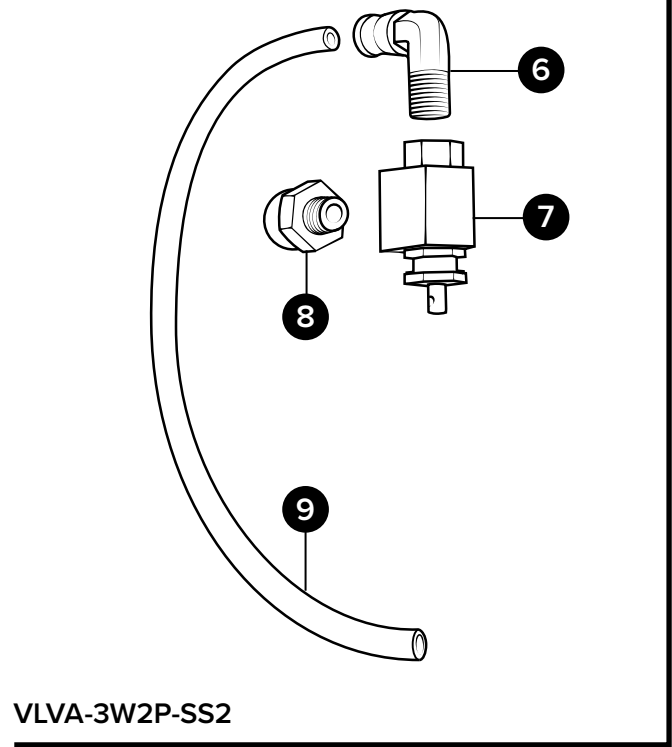
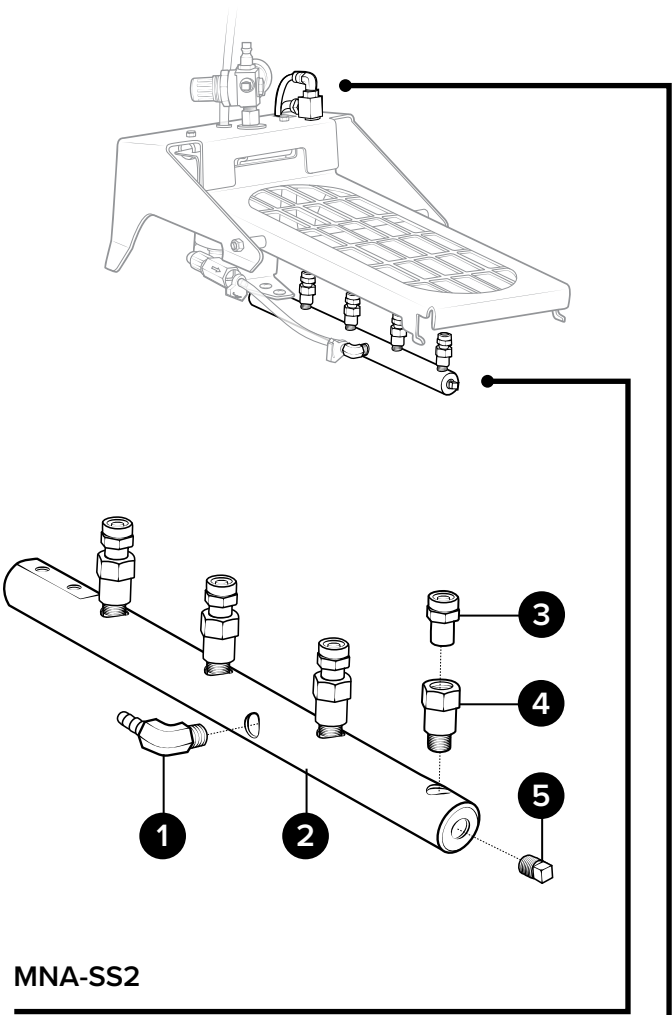
Manifold assembly for SS2 - includes SS check valves, spray tips, fitting, and plug

Item number		Description
1	HBSSEL1814	Stainless hose barb 1/8 MPT x 1/4 barb elbow
2	MN-SS2	Manifold - SS2 - 1/8 in. NPT - 6 ports - PVC
3	FCN12016	Full cone nozzle - PVDF - 120 deg - 16 GPH
4	CVSS18MF	Check valve - stainless steel - 1/8 MPT x 1/8 FPT - 1 lb. stainless steel spring - Viton seals
5	P18	Plug - 1/8 in. MPT - 304 stainless steel - square head

VLVA-3W2P-SS2:

Valve assembly for SS2 - 3 way 2 position - includes tooth washers and nuts

Item number		Description
6	QFEL18	Fixed elbow 1/4 in. tube x 1/8 in. MPT brass
7	ACVB-3W2P	Air control valve - nickel-plated brass - 3 way 2 position - valve only - does not include tooth washers or nuts
8	QF1814	Quick fit - 1/8 MPT x 1/4 od tube - polypropylene
9	TB14BL-PU	1/4 in. od blue tube - polyurethane available per ft.



Mechanism Sub-assemblies

PMPA-FLD-SS2-WF:

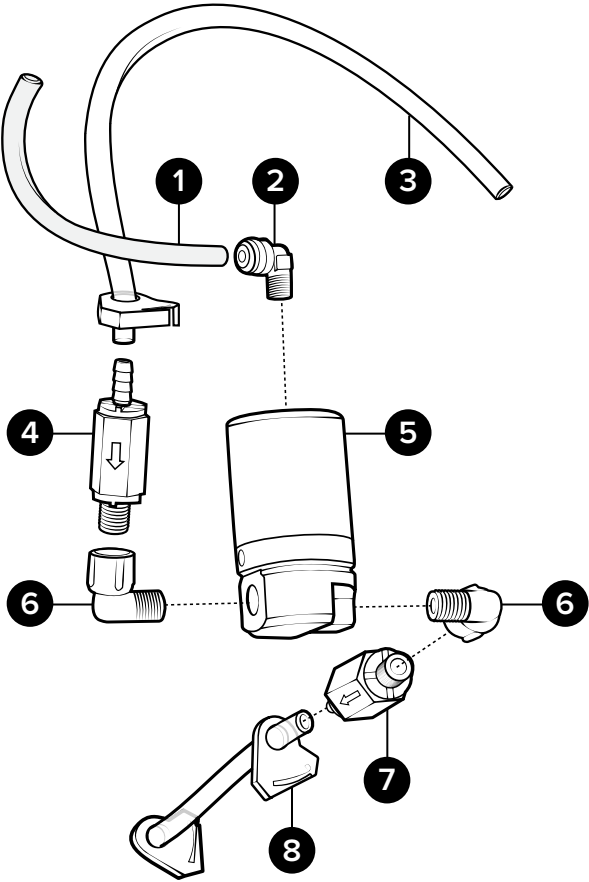
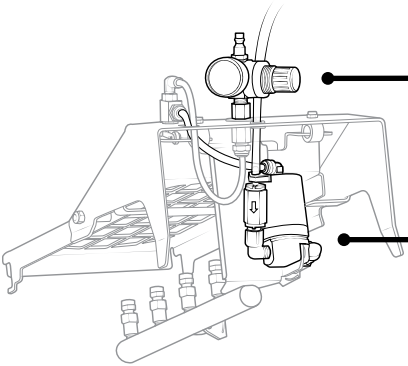
Pump assembly for SS2 - fluid - includes fittings, tubing, and check valves

Item number		Description
1	TB14BL-PU	¼ in. od blue tube - polyurethane available per ft.
2	QFEL1814	Fixed elbow ⅛ in. MPT x ¼ in. tube - polypropylene
3	H14CL-PV	¼ in. id ⅜ in. od clear hose - PVC - available per ft.
4	CV14HB14M	Check valve - PVC - ¼ barb x ¼ MNPT - 302SS spring - Viton seals - air flow right
5	PMPA-FLD-SS2	Pump assembly - SS2 - fluid - includes spring and seals
6	PSE14	Street elbow - polypropylene - ¼ in. NPT x ¼ in. FPT
7	CV14M14HB	Check valve - PVC - ¼ MNPT x ¼ barb - 302SS spring - Viton seals - air flow left
8	CLMPTB38-ADJ	Clamp - plastic - for ⅜ in. od tube - adjustable

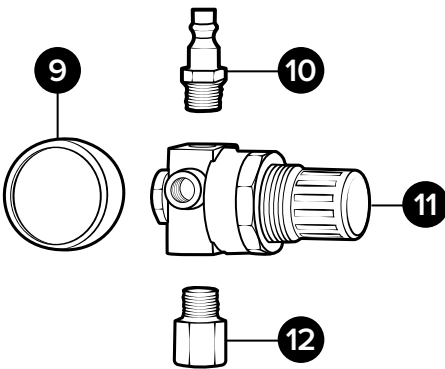
RGA-R16-SS2:

Regulator assembly - includes regulator with 2x ¼ in. and ⅛ in NPT ports, air gauge, and ⅛ in. NPT plug

Item number		Description
9	AG100	Air gauge - ⅛ in. NPT - 0-100 psi markings - dry model
10	AP14	Air fitting - ¼ in MPT quick disconnect hose coupling plug - nickel-plated brass
11	R16	Regulator - air - 2x ¼ in. FPT and 2x ⅛ in. FPT ports - no bowl and filter - no gauge
12	SSA14	Stainless adapter ¼ MPT x ¼ FPT



PMPA-FLD-SS2-WF



RGA-R16-SS2

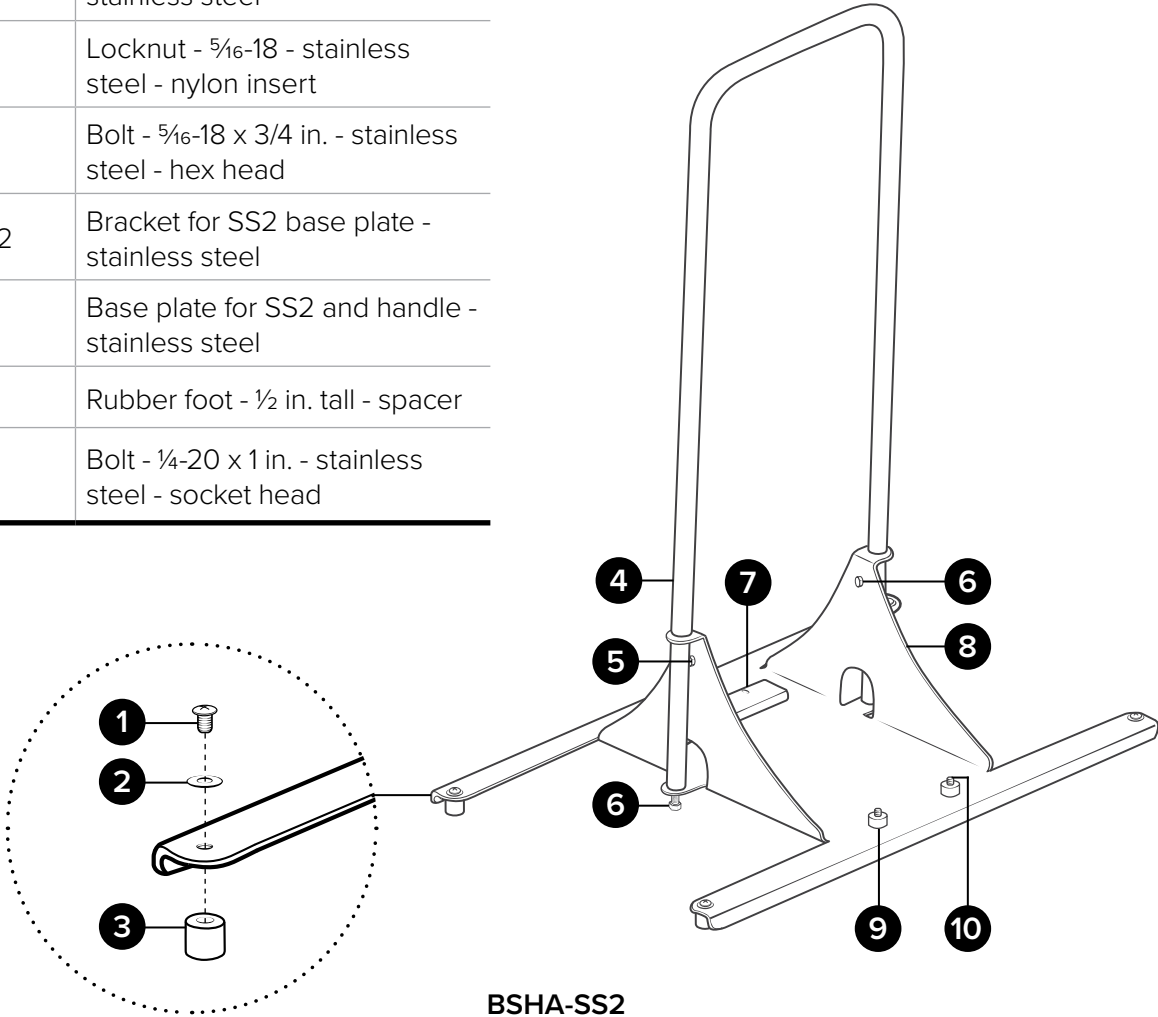
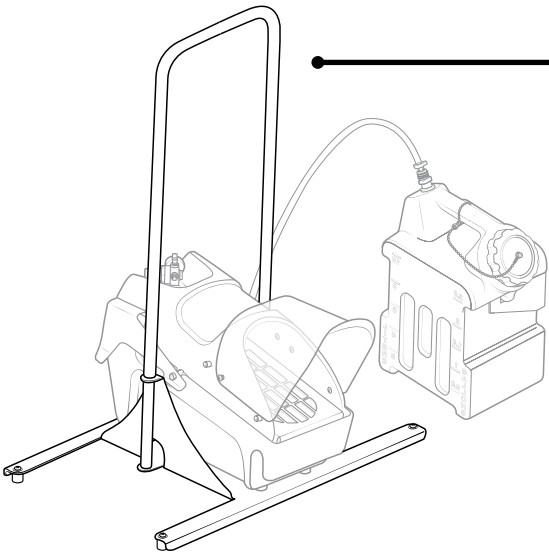
Base With Handle

SS2-BSH

SS2-BSH:
Footwear sanitizer - SS2 and base with handle - includes 2.5 gal chemical jug with suction and SS rack

BSHA-SS2:
Base and handle assembly for SS2 - Includes floor base plate, mount plate adapter, handle, rubber feet, and hardware

Item number	Description
1 B5161812-PH-VS	Bolt - 5/16-18 x 1/2 in. - stainless steel - pan head Phillips - Vibra-Seal
2 FW3816	Flat washer for 3/8-16 bolt - stainless - 0.41 in. id x 0.88 in. od x 0.05 in. thk
3 RFT1-516	Rubber foot - 1 in. tall - 5/16-18 threaded brass insert
4 HNDL-FS	Handle bar - footwear sanitizer stainless steel
5 LN516	Locknut - 5/16-18 - stainless steel - nylon insert
6 B5161834-HH	Bolt - 5/16-18 x 3/4 in. - stainless steel - hex head
7 BRKT-BSPL-SS2	Bracket for SS2 base plate - stainless steel
8 BSHPL-SS2	Base plate for SS2 and handle - stainless steel
9 RFT12-SPC	Rubber foot - 1/2 in. tall - spacer
10 B14201-SH	Bolt - 1/4-20 x 1 in. - stainless steel - socket head



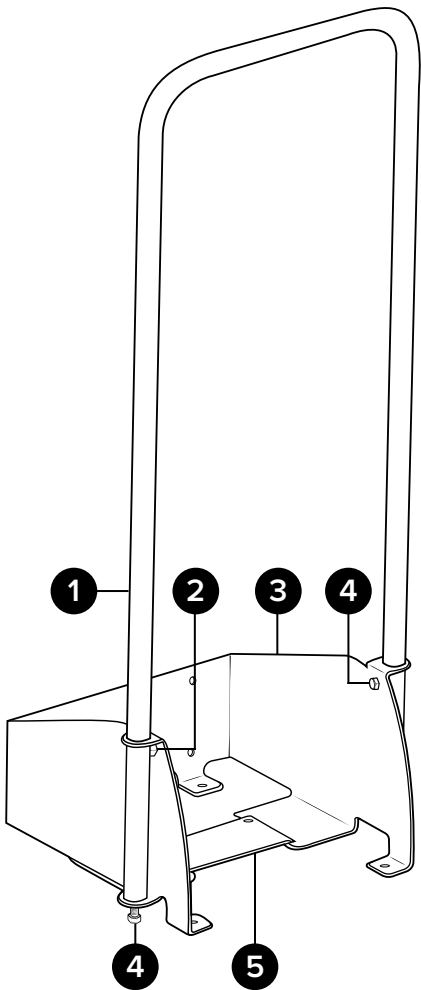
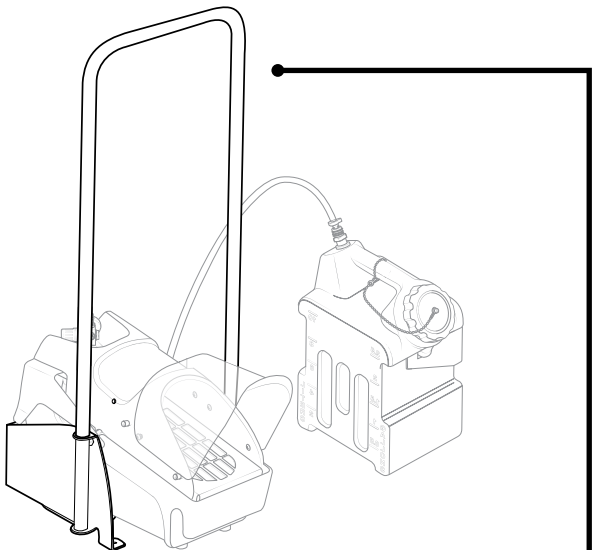
Floor Mount Base With Handle

SS2-FMH

SS2-FMH:
Footwear sanitizer - SS2 and base with handle - includes 2.5 gal chemical jug with suction and SS rack

FMHA-SS2:
Floor mount and handle assembly for SS2 - includes floor mount with handle bracket, handle, mount plate adapter, and mounting hardware

Item number		Description
1	HNDL-FS	Handle bar - footwear sanitizer stainless steel
2	LN516	Locknut - 5/16-18 - stainless steel nylon insert
3	FMHPL-SS2	Floor mount plate for SS2 and handle - stainless steel
4	B5161834-HH	Bolt - 5/16-18 x 3/4 in. - stainless steel - hex head
5	BRKT-FMPL-SS2	Bracket for SS2 floor mount plate - stainless steel



FMHA-SS2

Manual Boot Scrubber

SS2-MBS

SS2-MBS:

Footwear sanitizer - SS2 - includes floor mount, manual boot scrubber with combo handle, 2.5 gal chemical jug with suction, and SS rack

FMA-SS2:

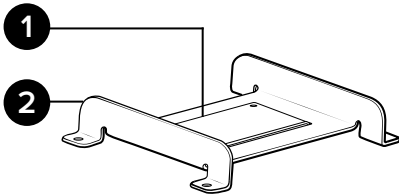
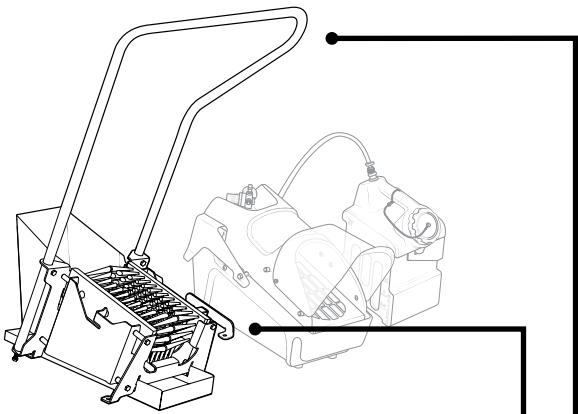
Floor mount assembly for SS2 - includes floor mount bracket and mount plate adapter - no hardware

Item number	Description
1 BRKT-FMPL-SS2	Bracket for SS2 floor mount plate - stainless steel
2 FMPL-SS2	Floor mount plate for SS2 - stainless steel

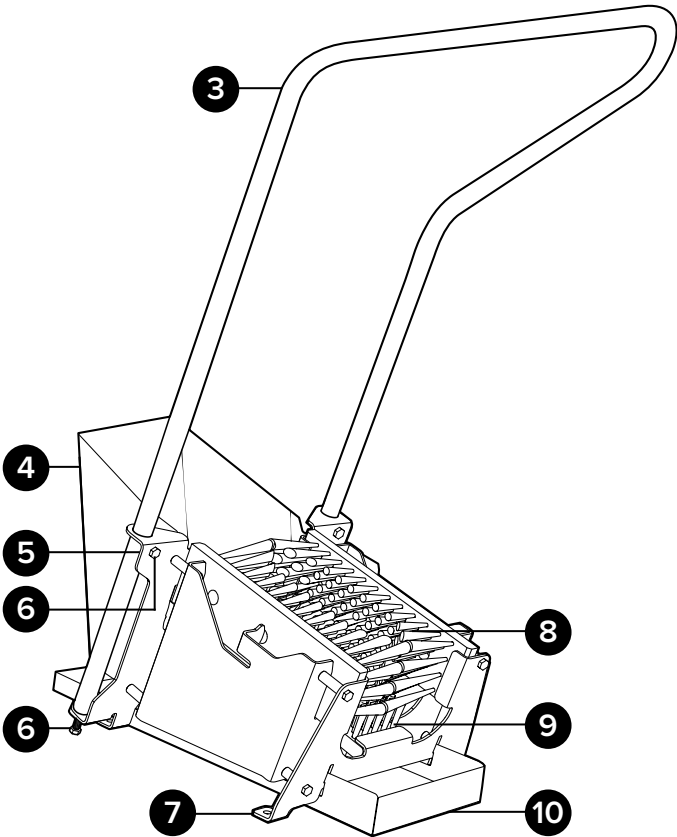
MBS-C:

Manual boot scrubber with combo handle

Item number	Description
3 HNDL-FS-C	Handle bar - footwear sanitizer and manual boot scrubber combo stainless steel
4 DBSH	Debris shield for manual boot scrubber - stainless steel
5 LN516	Locknut - 5/16-18 - stainless steel - nylon insert
6 B5161834-HH	Bolt - 5/16-18 x 3/4 in. - stainless steel - hex head
7 FMA-MBS	Floor mount assembly - MBS includes base brackets, brushes and fasteners
8 BR-BLK10-SD	Brush - block - 10 in. - for MBS side - polypropylene with polypropylene bristles
9 BR-BLK10-SL	Brush - block - 10 in. - for MBS sole - polypropylene with polypropylene bristles
10 DBTR	Debris tray - manual boot scrubber - stainless steel



FMA-SS2



MBS-C

Jug Assembly

JGA-2.5N-CPBK-SR:

2.5 gallon natural* chemical jug assembly - includes black* vented cap - suction fitting, SS rack and hose barb

CPA-35BK-VNT-CHN:

Cap assembly - 3.5 in. polypropylene - black* - vented - Includes check valve, SS bead chain tether, and gasket

Item number		Description
1	B103234-SH-VNT	Bolt - 10-32 x ¾ in. - stainless steel - socket head - vented
2	CP-35BK	Cap - 3.5 in. - polypropylene black*
3	CHNA-CP35	Chain asm - bead chain with screw mount links - for CP-35 cap to jug
4	CV-CP35	Check valve - black EPDM
5	GSKT-CP35	Gasket - EPDM - for 3.5 in. caps

Item number		Description
6	JG-2.5N	2.5 gal natural* chemical jug - jug only

* Additional colors available, see datasheet for options.

SCTNA-JG-2.5-WB:

Suction assembly for 2.5 gallon chemical jug - includes hose, foot strainer, quick connect socket, hose barb, and clamp

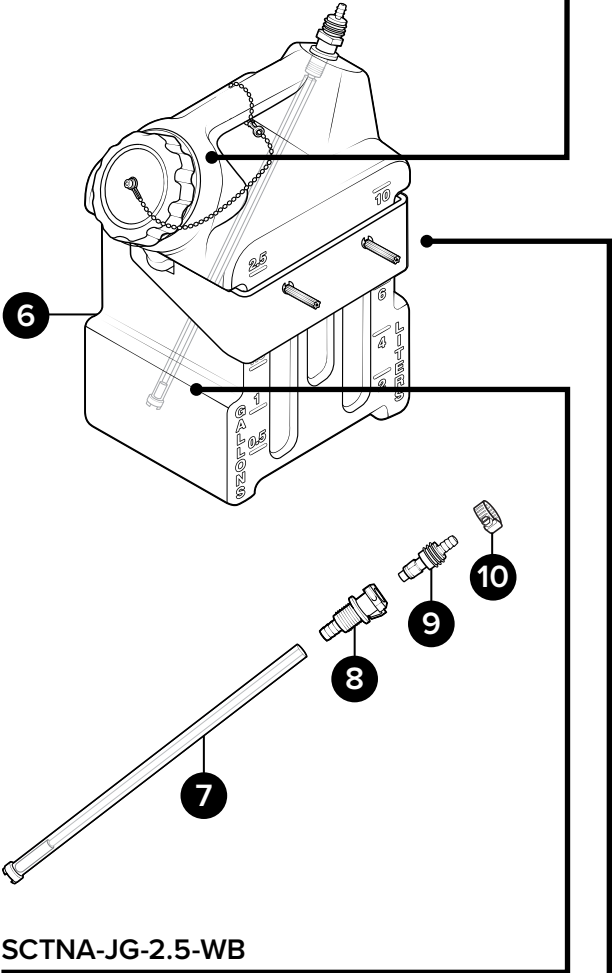
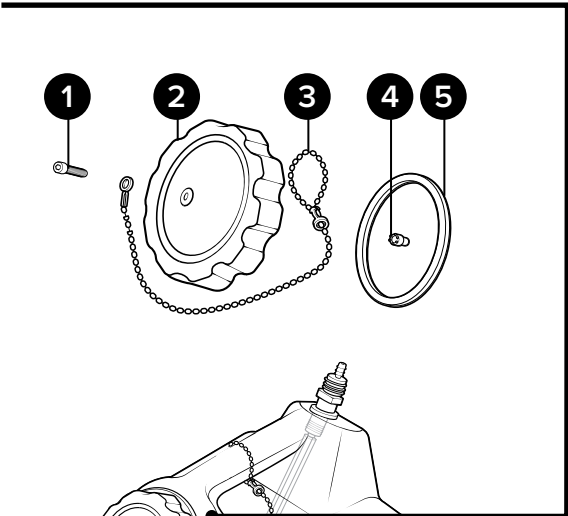
Item number		Description
7	SCTNA-JG-2.5-NF	Suction assembly - 2.5 gal chemical jug - hose and foot strainer - no fittings
8	QCPP-SCKT-PM	Quick connect socket - PP body with Hastelloy spring - barb for ¾ in id hose - 1½-24 panel mount threads
9	QCPP-PLG-HB14	Quick connect plug - PP body with Hastelloy spring - barb for ¼ in. id hose
10	SSC38	Screw band clamp - stainless steel - for ¾ in. hose

WMA-JG:

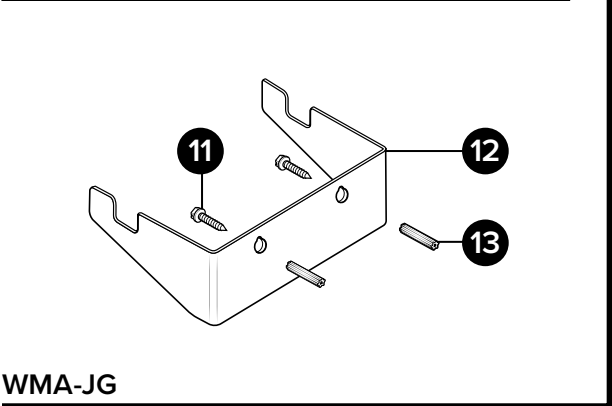
Wall mount bracket assembly - includes mounting hardware

Item number		Description
11	WMS14	Wall mount screw - #14 x 1 ¼ in. - stainless steel - hex head slotted
12	WMBRKT-JG	Wall mount bracket - stainless steel
13	WMS14A	Wall mount screw anchor - #14 x 1 ¼ in. - plastic - 5/16 in. drill size

CPA-35BK-VNT-CHN



SCTNA-JG-2.5-WB



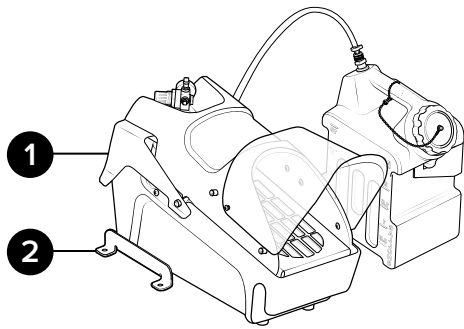
WMA-JG

Additional Configurations

SS2-FM:

Footwear sanitizer - SS2 - includes floor mount, 2.5 gal chemical jug with suction, and SS rack

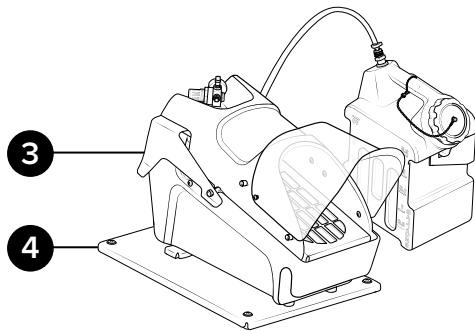
Item number		Description
1	SS2	Footwear sanitizer - includes 2.5 gal chemical jug with suction and SS rack
2	FMA-SS2	Floor mount assembly - SS2 - floor mount bracket and mount plate adapter - no hardware



SS2-BS:

Footwear sanitizer - SS2 and base mount - includes floor mount, 2.5 gal chemical jug with suction, and SS rack

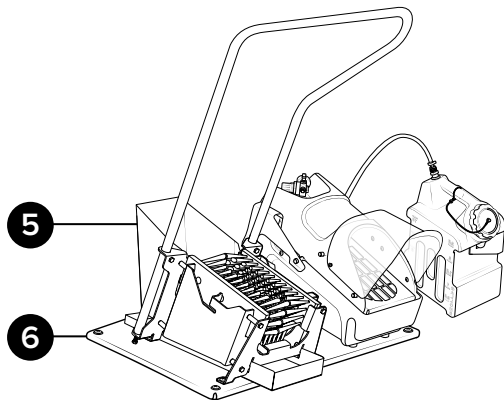
Item number		Description
3	SS2	Footwear sanitizer - includes 2.5 gal chemical jug with suction and SS rack
4	BSA-SS2	Base assembly for SS2 - includes base plate, mount plate adapter, rubber feet, and hardware



SS2-MBS-BS:

Footwear sanitizer - SS2 and manual boot scrubber with combo handle on base mount - includes 2.5 gal chemical jug with suction and SS rack

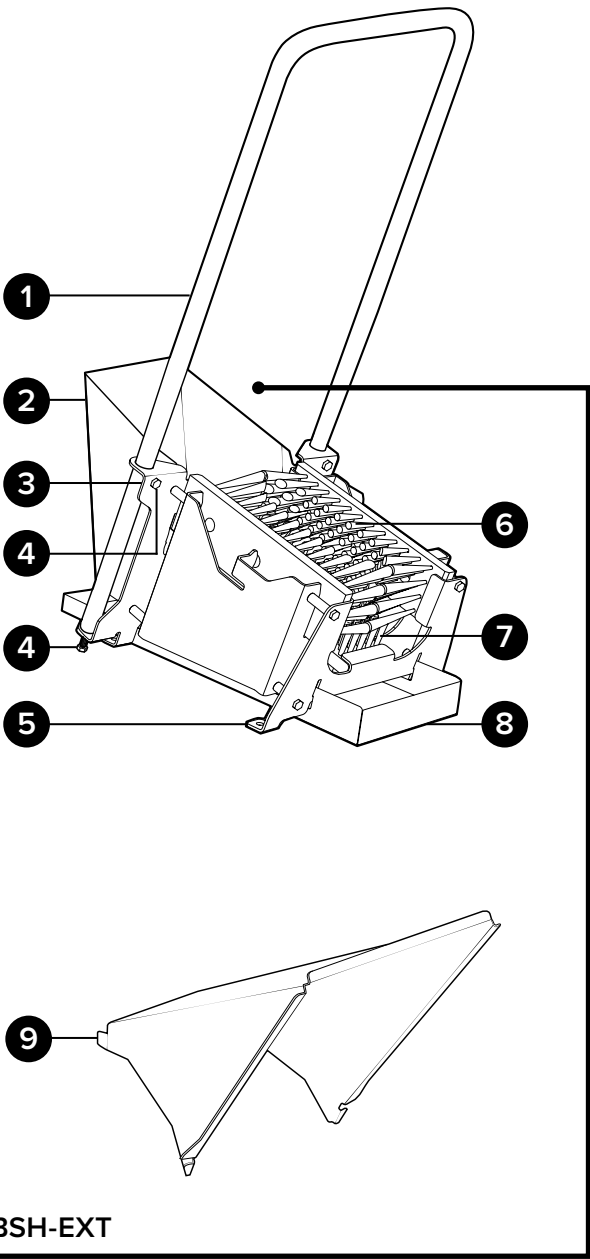
Item number		Description
5	SS2-MBS	Footwear sanitizer - SS2 - includes floor mount, manual boot scrubber with combo handle, 2.5 gal chemical jug with suction, and SS rack
6	BSA-SS2-MBS	Base assembly for SS2 and manual boot scrubber - includes base plate, mount plate adapter, rubber feet, and hardware



Additional Configurations

MBS:
Manual boot scrubber with straight handle

Item number		Description
1	HNDL-FS	Handle bar - footwear sanitizer - stainless steel
2	DBSH	Debris shield for manual boot scrubber - stainless steel
3	LN516	Locknut - 5/16-18 - stainless steel - nylon insert
4	B5161834-HH	Bolt - 5/16-18 x 3/4 in. - stainless steel - hex head
5	FMA-MBS	Floor mount assembly - MBS - includes base brackets, brushes and fasteners
6	BR-BLK10-SD	Brush - block - 10 in. - for MBS side - polypropylene with polypropylene bristles
7	BR-BLK10-SL	Brush - block - 10 in. - for MBS sole - polypropylene with polypropylene bristles
8	DBTR	Debris tray for manual boot scrubber - stainless steel



Optional Component

DBSH-EXT:
Debris shield extension for manual boot scrubber - stainless steel

Item number		Description
9	DBSH-EXT	Debris shield extension for manual boot scrubber - stainless steel

DBSH-EXT
**Optional component sold separately*