

MSA-510-DEC DECORATOR SPRAY GUN

IMPORTANT: Before using this equipment, read all safety precautions and instructions. Retain for future use.

DESCRIPTION

The MSA-510-DEC is a smaller, lighter weight gun that can apply decorative spatter effects to wood furniture, metal panels, etc. Finish may be changed from a fine mist to larger droplet size particles. Simply adjust fluid pressure and/or air pressure

The MSA-510-DEC comes with the flat-end AV-447 spatter cap assembly. Small spatter dots are the result of coarse atomization when using the standard spatter cap assembly (2).

OPERATION

Note

This gun may be used with chlorinated solvents. Aluminum is not used in the fluid passage areas.

Mix material according to manufacturer's instructions. It may be necessary to strain material.

A greater than normal gun distance provides a more uniform particle size. Particle spacing is determined by speed of movement and degree of overlap. Particle size is dependent on the material consistency. Specially formulated spatter materials are available, although standard paints may be used. Apply standard paints using very little or no reduction.

Pressure on cup or tank controls material flow. Begin with the fluid needle adjusting screw (32) wide open. Use fluid needle adjusting screw (32) to regulate material flow under abnormally low material pressure or material viscosity conditions. Adjust atomization air to get desired particle size. It should be high enough to carry particles to surface. Spatter dot size increases with pressure reduction, and decreases with pressure increase. Pressure used depends on material viscosity being sprayed and desired operation speed.

PREVENTIVE MAINTENANCE

To clean gun passages, blow back paint to material supply source and flush fluid passage with clean solvent. Model HD-503 Gun/Hose Cleaner is a very fast and effective way of cleaning (See Accessories). Wipe gun clean with solvent soaked cloth.

If slots of ring (4) become clogged, clean by soaking cap in solvent and scrubbing with a gun cleaning brush.

Note

When replacing the fluid tip or fluid needle, replace both at the same time. Using worn parts can cause fluid leakge. Also, replace the needle packing at this time.

Using SSL-10 gun lube, lightly lubricate the threads of the fluid tip before reassembling. Torque to 12-15 ft. lbs.

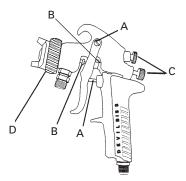


To prevent damage to the fluid tip (7) or fluid needle (28), be sure to either 1) pull the trigger and hold while tightening the fluid tip or 2) remove fluid needle adjusting screw to relieve spring pressure.

Spray Gun Lubrication

For best results, lubricate the points indicated, daily. Use SSL-10 Spray Gun Lube to lubricate.

- A. Trigger Points
- B. Packings
- C. Adjusting Valves
- D. Air Baffle Threads



SAFETY PRECAUTIONS

This manual contains information that is improtant for you to know and understand. This information relates to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the following symbols. Please pay particular attention to these sections.

WARNING

Important safety information - A hazard that may cause serious injury or loss of life.



Important information that tells how to prevent damage to equipment, or how to avoid a situation that may cause minor inury. Information that you should pay special attention to.

Note

WARNING

The following hazards may occur during the normal use of this equipment. Please read the following chart before using this equipment.

HAZARD	CAUSE	SAFEGUARDS			
Fire	Solvent and coatings can be highly flammable or combustible, especially when sprayed.	Adequate exhaust must be provided to keep air free of accumulations of flammable vapors. Smoking must never be allowed in the spray area. Fire extinguishing equipment must be present in the spray area.			
Solvent Spray	During cleaning and flushing, sol- vents can be forcefully expelled from fluid and air passages. Some solvents can cause eye injury.	Wear eye protection.			
Inhaling Toxic Substances	Certain materials may be harmful if inhaled, or if there is contact with the skin.	Follow the requirements of the Material Safety Data Sheet supplied by your coating material manufacturer. Adequate exhaust must be provided to keep the air free of accumulations of toxic materials. Use a mask or respirator whenever there is a chance of inhaling sprayed materials. The mask must be compatible with the material being sprayed and its concentration. Equipment must be as prescribed by an industrial hygienst or safety expert, and be NIOSH approved.			
Explosion Hazard -	Halogenated hydrocarbon solvents - for example; methylene chloride and 1, 1, 1 - Trichloroethane can chemically react with aluminum. The chemical reaction caused by these solvents reacting with aluminum can become violent and lead to an equipment explosion.	This gun can be used with these solvents. However, aluminum is widely used in other spray application equipment - such as, material pumps, cups, regulators, valves, etc. Check all other equip- ment items before use and make sure they can also be used safely with these solvents. Read the label or material data sheet for the material you intend to spray. If in doubt as to whether or not a coating or cleaning material is compatible, contact your material supplier.			

SB-2-319-D Page 3 Individual Parts Req.

PARTS LIST

PARTS LIST Bef Individu									
r					Ref. No.	Part No.	Description	Individual Parts Req.	
Ref. No.	Part No.	Description	Individual Parts Req.	ŀ	25	MSA-3		1	
		-			•26	GTI-33-K5	Seal Kit (Kit of 5)	1	
1	MBC-231	Retaining Nut	1		27	JGA-4074	Baffle Assembly		
2	AV-447	Spatter Cap Assembly (Flat)	1		28		Fluid Needle (Included with		
3		Cap Ring	1				Item 7)	1	
4 5		Ring Gasket	1		29		Bushing	1	
6	 MSV-3-K10	Gasket, PTFE (Blue) (Kit of 10)	1		•30	MBD-19-K10	Spring (Kit of 10)	1	
7	JGA-4040-VF	Fluid Tip and Needle, Matched	1		•31		Spring Pad (Included		
′		(Includes Item 28)					with Item 30)	1	
8		Lock Nut	1		32	TGHV-15	Fluid Needle Adjusting Screw	1	
9		Fluid Inlet Adapter	1		33	JGA-4041	Bushing, Spring & Knob Kit	1	
10	JGA-4044	Fluid Inlet and Nut Kit	1		T 1				
•11	JGV-463-K3	Needle Packing (Kit of 3)	1			n hand for servi	ed in Repair Kit KK-4987-2 and sh	ould be	
12	34411-122-K10	Packing Gland (Kit of 10)	1				nate kits of multiple parts.		
13		Trigger Bearing Stud	1				is a kit of 3 packings.		
•14		Screw	1		p	+Inner PTFE	A (Bef No	11) Needle	
15	JGS-478	Stud and Screw Kit	1			+Inner PIFE Piece	Fluid Packing Packing (2)	piece pack-	
	104 177	(3 studs and 5 screws in kit)				/		ed by U.S.	
16	JGA-477	Trigger, Stud and Screw Kit	1			111115777	Patent No.		
. 47		(Kit includes 1 each)	1		\subset		() +Tapered edg		
•17 •18	JGA-14-K25 JGA-15-K25	Snap Ring (Kit of 25) Washer (Kit of 25)	1		۵_	V///	towards page		
•18	JGA-15-K25 JGS-26-K25	U Cup Seal (Kit of 25)	1				Fluid	0	
•19	JGS-20-K25 JGS-431-K25	Air Valve (Kit of 25)	1			er U.H.M.W.	Needle		
•21	MBD-12-K25	Spring (Kit of 25)	1	L	Po	oly. Piece			
•22	JGS-72-K10	Gasket (Kit of 10)	2				33		
23	JGS-449-1	Air Valve Assembly	1				/		
24	JGA-132	Plug	2	28		22	29 <u>3</u> 0 31		
See GTI-33 Baffle Seal Replacement instructions on page 4. Torque to 12-15 ft. lbs. 7 26 26 10 10 10 10 10 10 10 10 10 10									
Note *Apply QH-130 (Loctite #242, med. strength blue) sealing com- pound onto the threads and screw into place with 170-180 in/ lb. torque.							* 25		
$-\mathbf{G} - \mathbf{Q} -$									

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GTI-33 Baffle Seal Replacement (26)

- 1. Remove fluid tip (7).
- 2. Remove baffle (27).
- 3. Remove seal (26) from baffle.
- 4. Assemble seal to baffle with **angled side up** as shown at right.

NOTE

The seal should be a tight fit on the baffle. If it is a loose fit on the baffle, assure that it is assembled with the angled side up.

ACCESSORIES

42884-214-K5 3/8" HD-503 SPRAY GUN LUBE HAV-500 OR HARG-510 AIR WB-103 WRENCH 42884-215-K10 5/8" **SOLVENT SAVER™** SSI -10-K12 HAV-501 REGULATOR CLEANING BRUSHES GUN/HOSE CLEANER Adjusting Valve (2 oz. bottle) (HAV-501 SHOWN) idaé ۹ÜT 12 _____ 1127 Ø Compatible with all paint Use to maintain nearly 2 gt. Hose/Gun Cleaner materials: contains no sili-cone or petroleum distil-HAV-500 does not have constant outlet pressure These brushes are help-ful in cleaning threads and recesses of gun used to clean the inside of hose, fluid passage-ways of gun and other despite changes in inlet pressure and down-stream flow. Contains all necessary pressure gauge. Use to lates to contaminate paint tip, hose and nut sizes used on or with gun. control air usage at gun. An MSDS Sheet is avail-able upon request. body. paint equipment. Millennium 3000 HAF-507 KB-555 Alum. & 29-3100 Scrubs® Whirlwind™ Twin Cartridge, **KB-545-SS** Hand Cleaner Towels Stainless Steel 2 Qt. Paint Spray In-Line Air Filter Respirator Pressure Feed Cups Scrubs® are a pre-🖁 BINK5² moistened hand NIOSH-Certified cleaner towel for (TC-84A-1623) for painters, body men respiratory protecand mechanics that tion in atmospheres go where you go Removes water, oil, and debris not immediately Includes a 0-30 psi and no water is from the air line. dangerous to life. needed. gauge.

WARRANTY

This product is covered by DeVilbiss' 1 Year Limited Warranty.

DeVilbiss Worldwide Sales and Service Listing: www.devilbiss.com

Industrial Finishing

DeVilbiss has authorized distributors throughout the world. For technical assistance or the distributor nearest you, see listing below.

U.S./Canada Technical Service Office:

195 Internationale Blvd., Glendale Heights, IL 60139 Toll-Free Telephone: 1-888-992-4657 (U.S.A. and Canada only) Toll-Free Fax: 1-800-368-8401



- 5. Install baffle on gun.
- 6. Install fluid tip (7) and tighten to 12-15 ft-lbs.

NOTE

The seal is designed to be a tight fit on the baffle. The seal should be able to be removed using your fingers. If you are unable to remove the seal using your fingers, insert a small screwdriver between the outer lip and the back of the baffle and pry the seal off.

