# HVLP *EDGE*<sup>™</sup> Gun

### Models: 257827

Maximum Fluid Working Pressure: 50 psi (0.35 MPa, 3.5 bar) Maximum Air Working Pressure: 10 psi (0.07 MPa, 0.7 bar)

#### Registered Design No. 001147813-0001



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#### Important Safety Instructions Refer to your sprayer instruction manual for

Pressure Relief and spray instructions. Keep these instructions.





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## - For the application of architectural paints and coatings -

The HVLP Edge gun is not intended to be used on an external compressor

The following Warnings are for the setup, use, grounding, maintenance and repair of this equipment. The exclamation point symbol alerts you to a general warning and hazard symbols refer to procedure-specific risks. Refer back to these Warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

### WARNINGS

### FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:

•Use equipment only in well ventilated area.

•Eliminate all ignition sources; such as pilot lights,

cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).

- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- · Ground all equipment in the work area. See Grounding instructions.
- Hold gun firmly to side of grounded pail when triggering into pail.
- If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.
- When flammable liquid is sprayed or used for flushing or cleaning, keep sprayer at least 20 feet (6 meters) away from explosive vapors.
- Do not clean with materials having flash points lower than 70° F (21° C). Use water-based materials or mineral spirits-type material only. For complete information about your fluid, request the MSDS from the fluid distributor or retailer.



#### EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals.

- Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.

#### PRESSURIZED ALUMINUM PARTS HAZARD

Do not use 1,1,1-trichloroethane, methylene chlo-

ride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.

#### PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or in the operating area of the equipment to help protect you from serious

injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective eyewear and Hearing protection
- · Gloves, clothing and respirator as recommended by the fluid and solvent manufacturer

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#### Component Identification

Component Identification



ID	Component	ID	Component
Α	Siphon Cup		
В	Check Valve	Н	Air Inlet
С	Air Cap	J	EasyGlide <sup>™</sup> Trigger
D	Air Nozzle	Κ	Latch
Е	Fluid Needle	М	Swivel Tube
G	Trigger Slide	Ν	Strainer

# **Pressure Relief Procedure**



The spray gun cup is pressurized by the gun air supply. To reduce the risk of serious injury from pressurized fluid or accidental spray from gun, always turn off the air supply to the gun before removing the spray gun cup. Unplug sprayer from outlet

### Setup



Make sure sprayer is turned off and unplugged from power source. Refer to your sprayer instruction manual for spray setup.

### **Connect Gun to Siphon Cup**

1. Attach air hose from sprayer to inlet fitting of gun.



2. Fill cup 3/4 full. Install cover. Latch the gun cup cover to secure it to siphon cup.



# Operation

### Adjust Spray Pattern

1. Set air cap to position for spray pattern desired.



2. Verify trigger slide is in **SPRAY** position (E) and not **NEEDLE REMOVAL** position (D).



### **Optional Trigger Stop Adjustment (257086)**

Flow and pattern size is determined by the trigger stop. Set knob to **OFF**. Increase flow to attain desired spray pattern.



### Spray

1. Keep gun perpendicular to surface and at a distance of 6 to 8 in. (150 to 200 mm) from surface.

- 2. Have spray gun in motion before triggering. Move spray gun in a straight, smooth stroke. Release trigger at end of stroke.
  - 6 to 8 in. (150 to 200 mm)

# **Cleaning Spray Gun**



Before cleaning gun, read all warnings and do **Pressure Relief Procedure**.

1. Remove siphon cup. Empty spray material from siphon cup.



- 2. Pour small amount of solvent or water recommended by spray material manufacturer into siphon cup.
- 3. Latch the gun cup cover to secure it to siphon cup.
- 4. Swirl solvent or water inside of gun.
- 5. Spray solvent or water into waste pail until spray appears to be clean.
- 6. Remove siphon cup. Empty remaining solvent or water from siphon cup.
- 7. Clean inside of siphon cup with a clean rag.

- Remove retaining ring, air cap and fluid nozzle. Clean in solvent or water. Clean face of gun with a solvent or water dampened rag.
- 9. Assemble gun. Wipe gun with solvent or water dampened rag.





# **Check Valve Troubleshooting**

Recommended if fluid is in the check valve.

### Poppet Valve Quick Clear

1. Disconnect check valve from siphon cup air hoses.



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- 2. Unscrew check valve.
- 3. Pull out on nub on poppet valve and release.
- 4. Assemble check valve. Install on air hoses.
- 5. Try spraying again to see if spraying is normal.

### **Check Valve Cleaning**

- 1. Do steps 1 and 2 of Poppet Valve Quick Clean.
- 2. Unscrew poppet valve from check valve.
- ti13107a
- 3. Clean all parts in solvent recommended by spray material <sup>ti</sup> manufacturer.
- 4. After all parts are dry apply a light coat of petroleum jelly all over o-ring.
- 5. Assemble check valve. Install on air hoses.



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#### Needle Replacement

# **Needle Replacement**

### Removal

- 1. Relieve pressure.
- 2. Remove air cap (1).
- 3. Push trigger slide (4) over to NEEDLE REMOVAL position (D) shown on page 2.
- 4. Remove fluid nozzle (2).
- 5. Pull needle (3) out.

### Installation

- 1. Insert needle (3).
- 2. Install fluid nozzle (2).
- 3. Push trigger slide (4) over to SPRAY position (E) shown on page 2.
- 4. Install air cap.



Material / Fluid Set Selection Guide							
Material	Fluid Set #2 256946	Fluid Set #3 256947	Fluid Set #4 256948	Fluid Set #5 256949	Fluid Set #6 256950	Selecting Fluid Sets: Grooves at end of fluid needle indicate	
Dye Ink Non-Wiping Stain						size of fluid set. Example: Needle with 2 grooves on end goes with #2 fluid set.	
Automotive Finish Lacquer Stain Enamel Epoxy Urethane Varnish Primer							
Industrial Finishes Latex Multi-Spec Butyrate Nitrate Dope Oil Wall Paint						ti13753a	

## **Swivel Tube Adjustment**

The adjustable swivel tube allows the gun to be held in any position while spraying.

To adjust the position of the tube in the cup:

- 1. Loose nut (F). Rotate cup to desired spray position.
- 2. Tighten nut (F).





# **Optional Artisan Air Valve (256927)**

#### Installation

- 1. Remove air plug housing.
- 2. Install Artisan air valve.



# Troubleshooting

Problem	Cause	Solution
Orange peel finish - Paint surface not smooth	Pain droplets too large	<ul> <li>Maintain proper spraying distance, page 2.</li> <li>Keep turbine air filters clean to allow full air flow.</li> <li>Do not use an air hose that is too long to provide sufficient atomization pressure.</li> <li>If droplets are still too large, reduce fluid.</li> </ul>
	Paint droplets drying too fast to prop- erly flow out of gun	Keep object being sprayed out of direct sunlight. When spraying in warmer temperatures, use a slower evaporating solvent or a reducer.
	Cold weather spraying	Keep fluid and object being sprayed as close to room temperature as possible. When spraying on a cold surface, most paints will become too thick to flow properly.
Blushing - clear coatings appear milky	Moisture condensation is trapped in lacquer when spraying in hot, humid conditions	<ul> <li>Allow turbine to warm up a few minutes before spraying.</li> <li>Store lacquer off concrete floors, at room temperature.</li> <li>Apply lighter coats and allow for proper drying time.</li> <li>Use a slower evaporating solvent or reducer.</li> <li>Do not spray in windy conditions.</li> </ul>
Fish eyes - small pools on painted surface that will not fill	Silicone contamination from lubri- cants, grease, polish, or waxes on the surface being sprayed	Clean all parts with a cleaning solvent; wipe with a solvent rag and a clean rag. Replace rags as needed. If problem persists, use a fish eye elimi- nator.
Runs and sags	Applying too much paint per pass for the drying conditions	<ul> <li>Move gun faster or decrease fluid flow.</li> <li>Maintain proper spraying distance, page 2.</li> <li>Reduce amount of thinner or use a faster drying thinner.</li> </ul>
Solvent pops or bubbles	Sprayed surface drying before solvent gas can be released	<ul> <li>Apply fluid in lighter coats to allow for proper evaporation.</li> <li>Use the recommended thinners.</li> <li>Follow the solutions for Orange Peel Finish, Paint Droplets Too Large in this Trouble-shooting Table.</li> </ul>

Problem	Cause	Solution
No or slow fluid flow, intermit- tent spray, or fluttering spray	Wrong size fluid set being used	Select proper fluid set for fluid being sprayed, page 4
	Gun fluid nozzle blocked by dried paint or damaged	Clean or replace fluid nozzle
	Cup or pressure pot cover not tight enough or gasket damaged	Tighten cover or replace gasket
	Cup or pressure pot fluid tubes blocked by dried paint or damaged	Clean or replace fluid tubes
	Air flow to cup blocked	To check, remove cup (leave cover connected). Trigger gun and check air flow out of check valve. If air is not flowing freely, clean or replace check valve.
	Needle packings not properly adjusted. <b>Note:</b> Fluid loss through packings affects fluid pressure and causes a fluid leak from gun body.	Clean gun body with solvent and brush pro- vided. Adjust needle packings.
	Plugged inlet strainer	Replace strainer if plugged or remove strainer if material is high viscous.
Fluid leaks at fluid nozzle after trigger is released	Needle not seating in fluid nozzle	Check for a loose fluid nozzle or a bent nozzle or needle; tighten nozzle or replace parts as needed.
Poor spray pattern	Air cap horn hole and/or fluid nozzle plugged	Soak air cap and/or fluid nozzle in solvent. Clean air cap horn holes with non-metallic item to avoid permanently damaging them.

# **Technical Data**

Maximum inlet fluid pressure Maximum inlet air pressure Air inlet Fluid inlet Sound levels per ISO 3744 Sound power level Sound pressure level Wetted parts Bare spray gun

1-quart optional remote cup

Spray gun cups

50 psi (0.35 MPa, 3.5 bar) 10 psi (0.07 MPa, 0.7 bar) Quick-disconnect 3/8 nps

less than 65.0 dB(A) less than 65.0 dB(A)

stainless steel, aluminum aluminum, polyethylene aluminum, polyethylene

# Parts



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	256858	BODY, gun	1	22a	M70424	CUP, gasket	1
2	188493	PACKING, u-cup, gun	1	22b	244132	CUP, bottom	1
3	257108	HOUSING, nozzle	1	23	196463	TUBE, handle	1
7	192348	NUT, head	1	24	277950	HANDLE, gun	1
8	256960	KIT, includes 8a, 8b, 8c, 8d	1	25	196464	COUPLER, male	1
8a		SPREADER, u-cup	1	29	256957	CHECK VALVE, complete, includes	1
8b		PACKING, u-cup	1			29a, 29b*, 29c, 29d	
8c		SPACER, packing	1	29a		FITTING, adapter	1
8d		NUT, head	1	29b*		POPPET, check valve assembly	1
9	256951	HOUSING, air, cap	1	29c		FITTING, air	1
10	256861	RING, retaining, cap, air	1	29d		TUBE, air, cup	2
12	257087	VALVE, air	1	32	15V844	HOUSING, plug, fluid	1
13	15V846	TRIGGER	1	37	193218	STRAINER	1
14	280545	PIN, slide, trigger, w/ball	1	44		See Material / Fluid Set Selection	
15	15V848	NUT, slide, trigger, pin	1			Guide table, page 4,	
17	15X120	VALVE, fluid	1	45	M70394	STEM, air pressure	1
19	114069	SPRING, compression	1	🔺 Re	placement	Danger and Warning labels, tags, and c	ards
21	196468	FITTING, adapter	1	are a	/ailable at r	no cost.	
22	244130	CUP, 1 qt, under (includes 22a, 22b)	1	* Thre	e-pack Ch	eck Valve Repair Kit 256956 is available.	

#### **Translated Manuals**

Bulgarian- 313318	Dutch - 313322	German - 313326	Latvian - 313330	Portuguese - 313334	Slovenian - 313338
Croatian - 313319	Estonian - 313323	Greek - 313327	Lithuanian - 313331	Romanian - 313335	Spanish - 313778
Czech - 313320	Finnish - 313324	Hungarian - 313328	Norwegian - 313332	Russian - 313336	Swedish - 313340
Danish - 313321	French - 313777	Italian - 313329	Polish - 313333	Slovakian - 313337	Turkish - 313341

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This manual contains English. MM 313754

Graco Headquarters: Minneapolis International Offices: Belgium, China, Japan, Korea

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www.graco.com 12/2008, Revised 09/2009