



INSTRUCTIONS

This manual contains important
warnings and information.
READ AND KEEP FOR REFERENCE.

AUTOMATIC

AIR SPRAY GUN

STAINLESS STEEL FLUID PASSAGES

100 psi (7 bar) Maximum Working Pressure

Model 210-744, Series C

Basic gun without needle, nozzle, or air cap

With basic gun 210-744, order the needle-nozzle kit and air cap you want separately. See page 8 for available kits and air caps.

COMPLETE GUNS*

Model 208-603

With 0.042" nozzle; 0.033" needle;
for light viscosity fluids

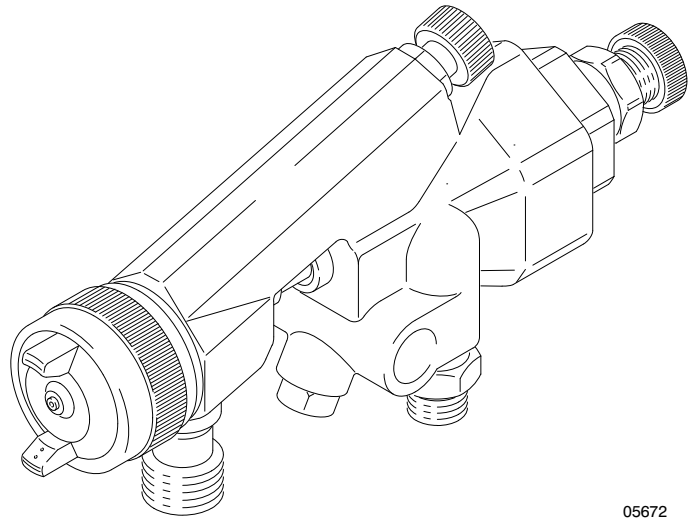
Model 208-604

With 0.055" nozzle; 0.046" needle;
for medium viscosity fluids

Model 208-605

With 0.070" nozzle; 0.061" needle;
for heavy viscosity fluids

* When ordering complete guns, order the model number and specify the air cap you want. See page 5 for available air caps.



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Symbols

Warning Symbol



This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

Caution Symbol



This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.

WARNING



INSTRUCTIONS

EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- This equipment is for professional use only.
- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are not sure, call your Graco distributor.
- Do not alter or modify this equipment. Use only genuine Graco parts and accessories.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not exceed the maximum working pressure stated on the equipment or in the **Technical Data** for your equipment. Do not exceed the maximum working pressure of the lowest rated component in your system.
- Use fluids and solvents which are compatible with the equipment wetted parts. Refer to the **Technical Data** section of all equipment manuals. Read the fluid and solvent manufacturer's warnings.
- Handle hoses carefully. Do not use hoses to pull equipment.
- Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose Graco hoses to temperatures above 82°C (180°F) or below -40°C (-40°F).
- Wear hearing protection when operating this equipment.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.

! WARNING



PRESSURIZED EQUIPMENT HAZARD

Spray from the gun, hose leaks, or ruptured components can splash fluid in the eyes or on the skin and cause serious injury.

- Do not stop or deflect leaks with your hand, body, glove or rag.
- Follow the **Pressure Relief Procedure** on page 8 whenever you: are instructed to relieve the pressure; stop spraying; clean, check, or service the equipment; or install or clean the fluid nozzle.
- Tighten all fluid connections before operating the equipment
- Check the hoses, tubes, and couplings daily. Replace worn, damaged, or loose parts immediately. Permanently coupled hoses cannot be repaired; replace the entire hose.



FIRE AND EXPLOSION HAZARD

Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.

- Ground the equipment and the object being sprayed.
- If there is any static sparking or you feel an electric shock while using this equipment, **stop spraying immediately**. Do not use the equipment until you identify and correct the problem.
- Provide fresh air ventilation to avoid the buildup of flammable fumes from solvents or the fluid being sprayed.
- Keep the spray area free of debris, including solvent, rags, and gasoline.
- Before operating this equipment, electrically disconnect all equipment in the spray area.
- Before operating this equipment, extinguish all open flames or pilot lights in the spray area.
- Do not smoke in the spray area.
- Do not turn on or off any light switch in the spray area while operating or if fumes are present.
- Do not operate a gasoline engine in the spray area.



TOXIC FLUID HAZARD

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, or swallowed.

- Know the specific hazards of the fluid you are using.
- Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.
- Always wear protective eyewear, gloves, clothing and respirator as recommended by the fluid and solvent manufacturer.

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Ordering Charts

External Mix Air Caps

With NEEDLE- NOZZLE KITS, use (See Note Below)	AIR CAPS	TYPE FEED ***	AIR CONSUMPTION			SPRAY PATTERN* at 8" (200 mm)
			30 psi (2 bar)	50 psi (3.5 bar)	70 psi (5 bar)	
THIN FLUIDS:	5–14 Seconds (No. 4 Ford Cup), 16–20 Seconds (No. 2 Zahn Cup), 10–30 cps; <i>stains, solvents, sealers, lacquers, primers, zinc chromates, acrylics, water, and similar fluids.</i>					
Kit No. 208–606 0.042" (1.07 mm) dia. nozzle 0.033" (0.84 mm) dia. needle	106–940	P	6.0 cfm (0.17 m³/min)	9.0 cfm (0.25 m³/min)	11.0 cfm (0.31 m³/min)	9" (230 mm)
	106–945	P	9.0 cfm (0.25 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	9" (230 mm)
	106–943	P	9.0 cfm (0.25 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	15" (380 mm)
	106–942	P	11.0 cfm (0.31 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	13" (330 mm)
	106–950	P	12.0 cfm (0.34 m³/min)	18.0 cfm (0.51 m³/min)	23.0 cfm (0.65 m³/min)	12" (300 mm)
MEDIUM FLUIDS:	16–18 Seconds (No. 4 Ford Cup), 20–30 Seconds (No. 2 Zahn Cup), 30–70 cps; <i>lacquers, varnishes, urethanes, primers, epoxies, shellacs, synthetic enamels, light adhesives, and similar fluids.</i>					
Kit No. 208–660 0.042" (1.07 mm) dia. nozzle 0.033" (0.84 mm) dia. needle	106–940	P	6.0 cfm (0.17 m³/min)	9.0 cfm (0.25 m³/min)	11.0 cfm (0.31 m³/min)	9" (230 mm)
	106–945	P	9.0 cfm (0.25 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	9" (230 mm)
	106–943	P	9.0 cfm (0.25 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	15" (380 mm)
	106–942	P	11.0 cfm (0.31 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	13" (330 mm)
	106–950	P	12.0 cfm (0.34 m³/min)	18.0 cfm (0.51 m³/min)	23.0 cfm (0.65 m³/min)	12" (300 mm)
Kit No. 208–607 0.055" (1.40 mm) dia. nozzle 0.046 (1.17 mm) dia. needle	106–945	P	9.0 cfm (0.25 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	9" (230 mm)
	106–943	P	9.0 cfm (0.25 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	15" (380 mm)
	106–942	P	11.0 cfm (0.31 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	13" (330 mm)
	106–944	P	11.0 cfm (0.31 m³/min)	18.0 cfm (0.51 m³/min)	24.0 cfm (0.68 m³/min)	12" (300 mm)
	106–950	P	12.0 cfm (0.34 m³/min)	18.0 cfm (0.51 m³/min)	23.0 cfm (0.65 m³/min)	12" (300 mm)
Kit No. 208–608 0.070" (1.78 mm) dia. nozzle 0.061" (1.55 mm) dia. needle	106–948	P	4.0 cfm (0.11 m³/min)	5.0 cfm (0.14 m³/min)	7.0 cfm (0.20 m³/min)	6" (150 mm)
	106–950	P	12.0 cfm (0.34 m³/min)	18.0 cfm (0.51 m³/min)	23.0 cfm (0.65 m³/min)	12 " (300 mm)
HEAVY FLUIDS:	Over 28 Seconds (No. 4 Ford Cup), 30 Seconds (No. 2 Zahn Cup), 70 cps; <i>acrylic, epoxies, vinyls, house paint, block sealers, mill whites, red lead, wood filler, and similar fluids.</i>					
Kit No. 208–607 0.055" (1.40 mm) dia. nozzle 0.046 (1.17 mm) dia. needle	106–945	P	9.0 cfm (0.25 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	9" (230 mm)
	106–943	P	9.0 cfm (0.25 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	15" (380 mm)
	106–942	P	11.0 cfm (0.31 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	13" (330 mm)
Kit No. 208–608 0.070" (1.78 mm) dia. nozzle 0.061" (1.55 mm) dia. needle	106–943	P	9.0 cfm (0.25 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	15" (380 mm)
	106–942	P	11.0 cfm (0.31 m³/min)	14.0 cfm (0.40 m³/min)	19.0 cfm (0.54 m³/min)	13" (330 mm)
HEAVY FLUIDS:	Heavy adhesives and mastics					
Kit No. 208–608 0.070" (1.78 mm) dia. nozzle 0.061" (1.55 mm) dia. needle	106–946	P	13.0 cfm (0.37 m³/min)	19.0 cfm (0.54 m³/min)	25.0 cfm (0.71 m³/min)	24" (610 mm)

* Spray Patterns determined spraying 50 cps enamel at 60 psi (4 bar) air pressure, with 10 psi (0.7 bar) fluid pressure.

** Includes ring.

*** "P" = Pressure

NOTE: When selecting air caps for use with complete gun models, select from air caps recommended for use with needle-nozzle kits having the same size needle and nozzle as the gun.

For complete gun:	Choose from caps recommended for:
Model 208–603 Model 208–604 Model 208–605	Kit No. 208–606 Kit No. 208–607 Kit No. 208–608

Needle-Nozzle Conversion Kits (Must be ordered separately)

Includes matched needle and nozzle, and nozzle gasket (103–464)

Type of Fluid	Kit No.	Nozzle		Needle	
		Orifice Size	Part No.	Probe Dia.	Part No.
Light Viscosity	208–606	0.042"	(176–800)	0.033"	(170–245)
Medium Viscosity	208–607	0.055"	(176–801)	0.046"	(170–246)
Heavy Viscosity	208–608	0.070"	(176–802)	0.061"	(170–247)

Installation

KEY

- A Automatic Air Spray Gun
- B Fluid Line
- C Air Filter
- D 3-Way Air Solenoid
- E Cylinder Air Supply Line
- F Atomizing Air Supply Line
- G Air Regulator
- H Sensing Device
- J Conveyor
- K Pump
- L Fluid Supply
- M Fluid Pressure Regulator

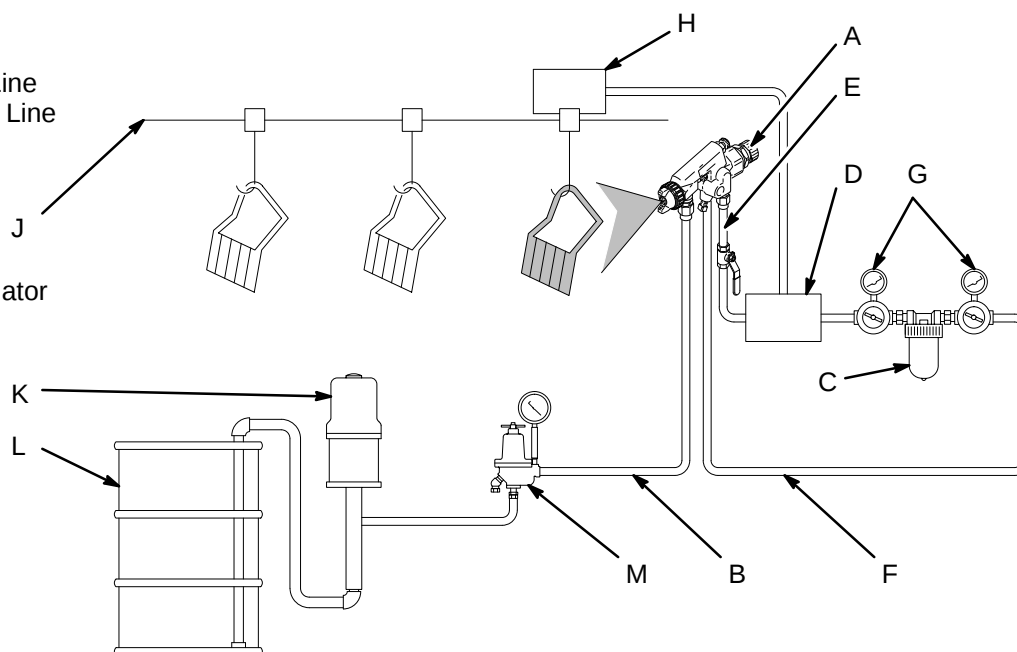


Fig. 1

The illustration shown above is only a guide to the equipment needed for an automatic spraying system. For design assistance, contact your Graco representative.

1. Mount the gun (A) on a 0.50 in. (12 mm) diameter rod mounting fixture which allows you to adjust the spray pattern direction and the gun's distance from the work.
2. Blow out the fluid lines (B) with air, then flush with solvent to remove dirt and contaminants before connecting to the system.
3. Be sure the compressed air supply is clean and dry. Install an air filter (C) to remove harmful dirt and moisture, which can affect the appearance of your finished workpiece.
4. Install a normally closed, 3-way air solenoid valve (D) in the cylinder air supply line (E). Connect an air hose from the solenoid valve to the gun's 1/4 npsm(m) cylinder air inlet.
5. Connect an atomizing air supply line (F) to the gun's 1/4 npsm atomizing air inlet.
6. Use separate air regulators (G) to control atomizing air and cylinder air.
7. Connect a fluid hose (B) to the gun's 3/8 npsm fluid inlet.

⚠ WARNING



TOXIC FLUID HAZARD

To prevent hazardous concentrations of toxic and/or flammable vapors, spray only in a properly ventilated spray booth.

Never operate the spray gun unless ventilation fans are operating.

Check and follow all of the national, state, and local codes regarding air exhaust velocity requirements.

Check and follow all local safety and fire codes.

NOTE: The reference numbers and letters in parentheses in the text refer to the callouts in the drawings.

Installation

Recommended Hose Sizes (General Purpose)

Fluid Hose		Air Hose	
Length Needed	ID	Length Needed	ID
0–35 ft. (0–11 m)	3/8 in.	0–100 ft. (0–30 m)	5/16 in.
35–100 ft. (11–30 m)	1/2 in.	100–200 ft. (30–60 m)	3/8 in.
100–200 ft. (30–60 m)	3/4 in.		

Adjust the system's sensing device (H) so that the gun starts spraying just before meeting the workpiece and stops just after the piece has passed. See Fig. 1.

The gun requires a minimum of 40 psi (3 bar) air pressure to the cylinder. The atomizing air pressure is generally 43 to 57 psi (3 to 4 bar). The fluid pressure supply is normally 10 to 15 psi (0.7 to 1.0 bar).

The external inlet threads of this gun are a combination American NPSM and British Whitworth pipe thread to allow coupling either type of female swivel union.

Operation

Pressure Relief Procedure

**WARNING**

**PRESSURIZED EQUIPMENT HAZARD**

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you:

- are instructed to relieve the pressure,
- stop spraying,
- check or service any of the system equipment,
- or install or clean the spray tip.

1. Turn off the air and fluid supply to the gun.
2. Trigger the gun into a grounded metal waste container to relieve system pressures.

Filter the Fluid

Strain or filter the paint to remove coarse particles and sediment, then check the viscosity of your paint. Refer to page 5 for the proper viscosity.

Install the air cap (38). See Fig. 2.

The direction of the spray pattern is controlled by the position of the air cap. The horns of the air cap should be the opposite direction (horizontal or vertical) of the desired direction of the spray pattern. To change the spray pattern, first **relieve the pressure**, then loosen and turn the air cap to the desired position, and hand tighten the air cap (38) securely.

Adjusting the Spray Pattern

To minimize overspray, adjust the pattern for each part being coated.

For maximum flow, leave the fluid adjusting knob (18) in the full open position. See Fig. 2.

The air adjusting screw (33) controls the pattern shape, the fluid adjusting screw (18) controls the volume of the fluid output, and the atomizing air regulator controls the degree of atomization.

Adjust the Pattern Size

Turn the air adjusting screw (33) out (counterclockwise) to make the spray pattern wider and flat, or in (clockwise) to decrease to a round pattern.

Adjust the Fluid Output or Pressure Feed

Turn the fluid adjusting screw (18) out all the way (counterclockwise). Then adjust the air pressure at the fluid supply until the desired flow is obtained. For the final adjustment, turn the fluid adjusting valve in (clockwise) to reduce the volume of fluid output to obtain the desired results

NOTE: If the fluid adjusting valve is turned in all the way, the gun will emit only air.

Test Spray Pattern

Hold the gun about 10 in. (254 mm) away from the surface of the test piece. Adjust the air pressure to the gun until proper atomization is achieved. Always use the lowest possible atomizing air pressure to obtain the desired results.

Normal Spray Pattern



Proper adjustment will give a spray pattern shaped like this.

See **Troubleshooting Chart** on page 10 for the cause and solution of improper spray patterns.

Maintenance

Cleaning

CAUTION

To ensure thorough flushing, and to avoid gun damage, be sure that any solvent you use is compatible with the fluid being sprayed and the wetted parts of the gun.

Never immerse the gun in solvent. Prolonged exposure to solvent damages the packings.

WARNING

To reduce the risk of serious injury, whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

1. Flush the gun with a compatible solvent until all traces of paint are removed from the gun passages.

2. Relieve the pressure

3. Wipe the outside of the gun clean with a solvent dampened cloth.
4. If the air cap (38) needs cleaning, **relieve the pressure**, and remove it from the gun. Soak the air cap in solvent and scrub with a fine bristled brush. To clean the holes in the air cap, use a toothpick or other soft implement to avoid damaging critical surfaces.

CAUTION

To avoid scratches which can distort the spray pattern, never use metal instruments to clean holes in the air cap or fluid nozzle.

Lubrication

Lubricate the exposed portion of the fluid needle (37) daily with lightweight grease or petroleum jelly.

Troubleshooting

WARNING

To reduce the risk of serious injury, whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

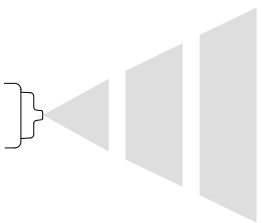
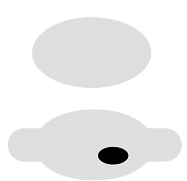
1. **Relieve the pressure** before you check or service any system equipment.
2. Check all possible causes and solutions in the **Troubleshooting Charts** before disassembling the gun.

Gun Operation Troubleshooting Chart

Problem	Cause	Solution
Fluid packing nut leaking	Loose needle packing nut (12, 13).	Tighten.
	Worn packing (8, 23)	Replace packing.
Air leakage from front of gun	Air piston (25) and packings (2, 4, 5, 6, 7) not seating properly.	Clean, service.
Fluid leakage from front of gun	Needle (37) worn or damaged.	Replace needle and nozzle as a set.
	Worn needle and seat in fluid nozzle (36).	Replace needle and nozzle as a set.
	Needle packing nut (12, 13) too tight.	Lubricate and adjust.

Troubleshooting

Spray Pattern Troubleshooting Chart

Problem:	Cause	Solution
Improper Spray Pattern		
Fluttering or spitting spray 	Insufficient fluid in the supply container. Dry or worn fluid needle packing, or loose packing nut permits air into fluid passage. Loose fluid nozzle, or damaged fluid nozzle taper seat. Dirt between fluid nozzle, taper seat and body. Loose or cracked fluid inlet fitting. Loose fluid tube in pump or tank.	Fill supply container Lubricate, or replace packings (8, 23); tighten packing nuts (12, 13) Tighten, or replace needle and nozzle. Clean. Tighten, or replace housing (24). Tighten.
	Fluid build-up on air cap; partially clogged horn holes. Full air pressure from clean horn hole forces fan pattern toward clogged end. Damaged fluid nozzle or air cap holes.	Clean with soft implement or submerge in suitable solvent and wipe clean. Replace damaged part.
	Fluid build-up on the perimeter of fluid nozzle orifice, or partially clogged fluid nozzle orifice.	Remove obstruction. <i>Never</i> use wire or hard instruments.
	Too high atomization air pressure. Fluid too thin. Not enough fluid pressure.	Reduce air pressure, or adjust air adjusting screw (27). Regulate fluid viscosity. Increase fluid pressure.
	Low atomization air pressure. Fluid too thick. Too much fluid.	Increase air pressure or adjust air adjusting screw (27). Regulate fluid viscosity. Reduce fluid pressure. Adjust fluid adjustment knob (6) until proper pattern is obtained.
Streaks 	Last coat of fluid applied too wet. Too much air pressure. Insufficient air pressure. Non-uniform spray pattern.	Apply drier finish with multiple strokes. Use lowest air pressure necessary. Increase air pressure. Clean or replace air cap (38).

Service

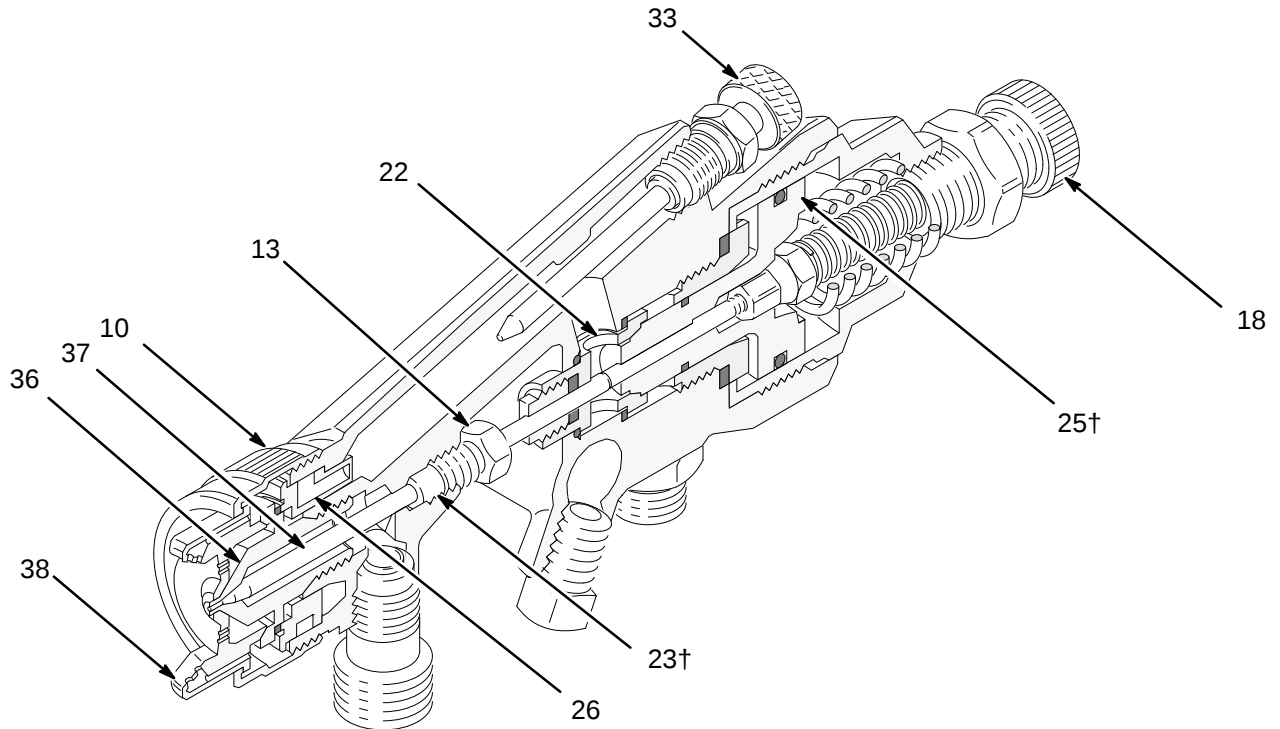


Fig. 2

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Air Valve Service

Note: Repair kit 208–609 is available. Use all the parts in the kit for the best results. Kit parts are designated with a dagger, for example (8†).

Note: Always replace fluid nozzle gasket (35) when replacing fluid nozzle. See the parts drawing on page 12.

WARNING

To reduce the risk of serious injury, whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

1. **Relieve the pressure**
2. If there is air leakage at the packing nut (12), tighten the nut. See the parts drawing on page 12.
3. If leakage continues, replace the packings (8†)

Fluid Packing Replacement

1. **Relieve the pressure**
2. If fluid leakage occurs at the packing nut (13), tighten the nut. If leakage continues, replace the packing (23†).

3. Loosen the packing nuts (12 & 13). Disassemble the air piston and cylinder, and remove the needle (37).
4. Remove the packing nuts and packings from the cavities, then clean and inspect all parts for wear or damage. Replace parts as necessary.
5. Lubricate the packings with lightweight oil or Graco Throat Seal Liquid, and insert the packings into the cavities. Install the needle (37) and piston (25†) in the gun body. Slide the packing nuts onto the needle before inserting the needle into the fluid packing cavity.
6. Push the needle and the piston fully forward, and turn the adjusting nut (17) all the way into position. Turn the adjusting nut two turns counterclockwise. Tighten the locknut (16) to hold the adjustment.
7. With the needle (37) in place, screw the fluid packing nut (13) in until the packing (23†) is fully compressed, then back off until free needle movement is attained. Reassemble the remainder of the gun in reverse order of disassembly.

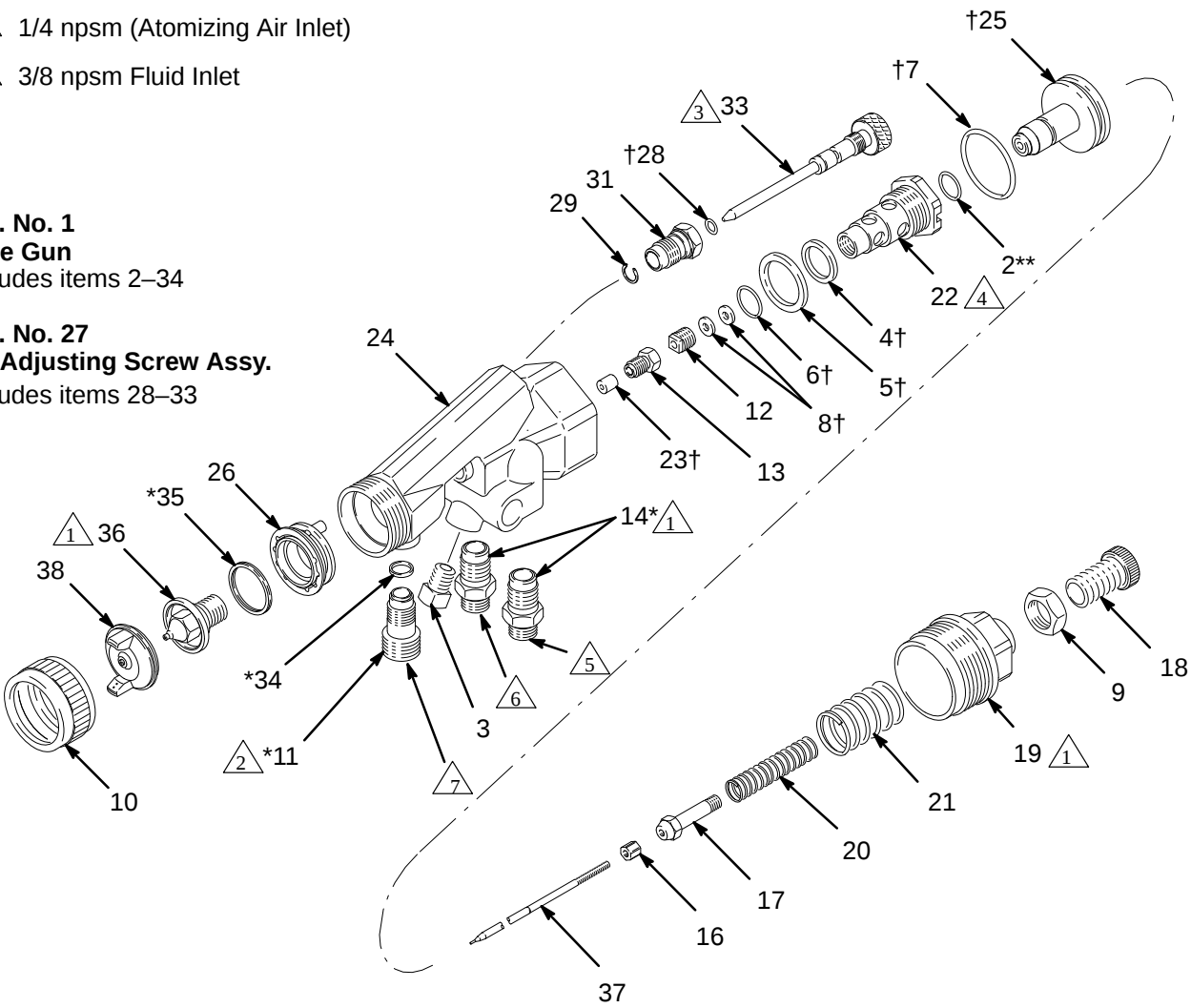
For best packing life, lubricate the gun daily as explained in **Maintenance**.

Parts

-  Torque to 20–25 ft-lb (27–37 N•m)
-  Torque to 15–20 ft-lb (20–27 N•m)
-  Torque to 9–11 ft-lb (10–15 N•m)
-  Torque to 40–45 ft-lb (54–61 N•m)
-  1/4 npsm (Cylinder Air Inlet)
-  1/4 npsm (Atomizing Air Inlet)
-  3/8 npsm Fluid Inlet

Ref. No. 1
Bare Gun
Includes items 2–34

Ref. No. 27
Air Adjusting Screw Assy.
Includes items 28–33



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Complete Gun Includes:	Needle (Ref. No. 37)	Nozzle (Ref. No. 36)
Model 208–603	170–245 (0.033")	176–800 (0.042")
Model 208–604	170–246 (0.046")	176–801 (0.055")
Model 208–605	170–247(0.061")	176–802 (0.070")

Parts

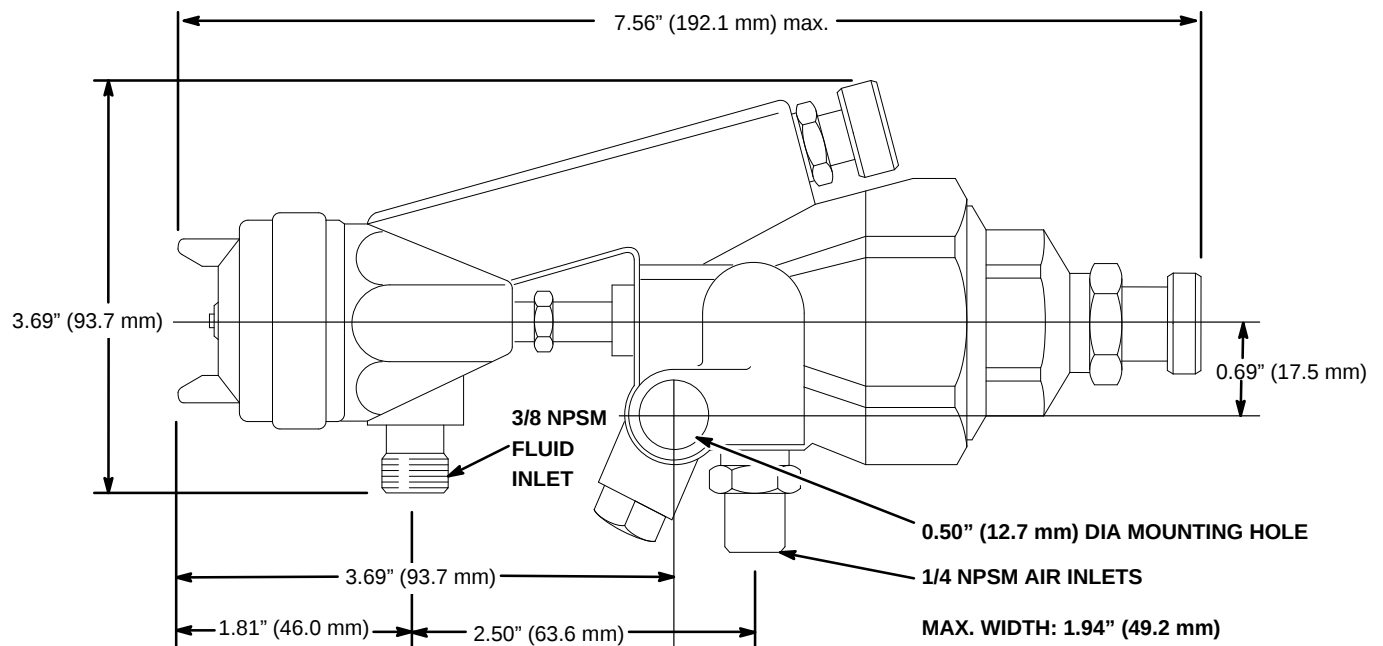
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	210-744	AUTOMATIC AIR SPRAY GUN; bare Series C	1	23†	106-901	PACKING, needle	1
2†	103-338	PACKING, o-ring; Viton®	1	24	210-743	HOUSING, valve	1
3	103-522	SCREW, sq hd set; 3/8"-16 x 5/8"	1	25†	208-718	PISTON, air	1
4†	103-523	GASKET, copper asbestos	1	26	106-913	BAFFLE, air	1
5†	103-524	GASKET, copper asbestos	1	27	106-121	AIR ADJUSTING SCREW ASSY. Includes items 28-33	1
6†	103-610	PACKING, o-ring; Viton®	1	28†	168-110	PACKING, o-ring; Viton®	1
7†	103-649	PACKING, o-ring; Viton®	1	29	105-456	RING, retaining	1
8†	160-240	PACKING, v-block; leather	2	31	176-773	HOUSING, spring	1
9	162-782	LOCKNUT	1	32	169-883	WASHER, flat; steel	1
10	106-914	RING, air cap	1	33	217-020	SCREW, air adjusting	1
11*	106-916	STUD, coupler 3/8" npsm	1	34*	106-900	GASKET, Teflon®	1
12*	171-333	NUT, packing; fluid needle	1	35*	108-784	GASKET, fluid nozzle; copper with mineral board insert	1
13	171-332	NUT, packing; fluid needle	1	36	-	NOZZLE; see chart on page 5	1
14*	106-917	ADAPTER, air inlet; 1/4-18-6	2	37	-	NEEDLE; see chart on page 5	1
16	170-242	NUT, lock	1	38	-	AIR CAP; see chart on page 5	1
17	170-243	NUT, needle adjusting	1				
18	170-244	SCREW, needle adjusting	1				
19	170-249	CYLINDER, air piston	1				
20	724-391	SPRING, compression; 2.0" (51 mm) long	1				
21	170-253	SPRING compression; 1.375" (35 mm) long	1				
22	171-722	HOUSING, valve	1				

* Recommended "tool box" spare parts. Keep on hand to reduce down time.

† These parts are included in Repair Kit 208-609, which may be purchased separately.

Viton® and Teflon® are registered trademarks of the Du Pont Company.

Dimensions



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The Graco Warranty and Disclaimers

WARRANTY

Graco warrants all equipment listed in this manual which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS, OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.) are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

For Sales to Canadian Customers:

Except as expressly stated herein, Graco makes no representations, warranties or conditions, express, implied or collateral, concerning any goods or services sold, and **GRACO SHALL NOT BE LIABLE IN ANY MANNER FOR** any other representation, warranty or condition of any kind, whether arising by operation of law or otherwise, including but not limited to, **WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

LIMITATION OF LIABILITY

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or for the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

Graco Phone Number

TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you:
1-800-367-4023 Toll Free

Manual Change Summary

- The entire manual was electronically updated for on-line use.

Sales Offices: Atlanta, Chicago, Detroit, Los Angeles
Foreign Offices: Belgium, Canada, England, Korea, Switzerland, France, Germany, Hong Kong, Japan

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

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