

G40 Air Assisted Spray Gun

333182C

EN

For the application of architectural paints and coatings. For professional use only.

Model: 262929, 262932

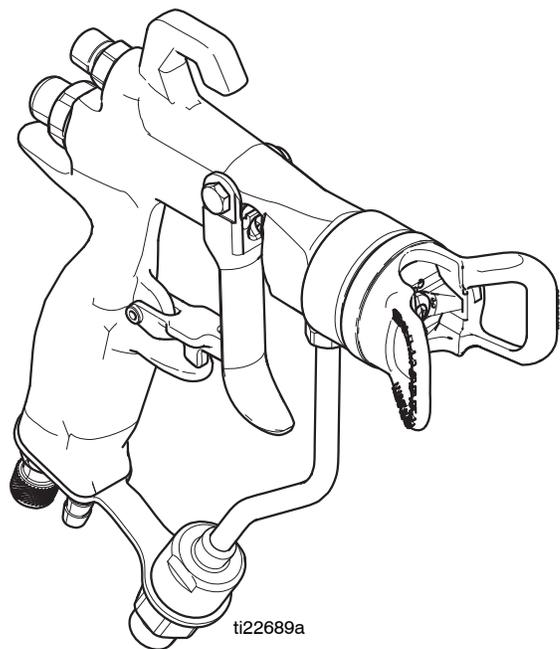
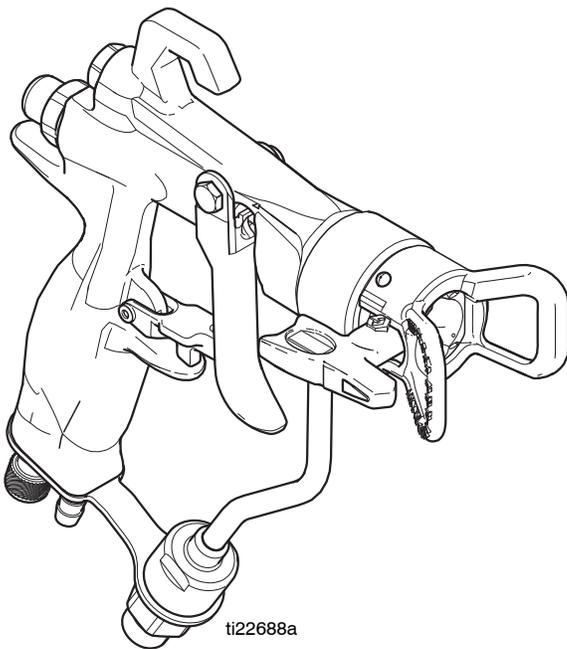
Maximum Working Pressure: 4000 psi (280 bar, 28 MPa)

Maximum Air Working Pressure: 100 psi (7 bar, 0.7 MPa)



Important Safety Instructions

Read all warnings and instructions in this manual. Save these instructions.



Warnings

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 the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

 WARNING	
  	<p>SKIN INJECTION HAZARD</p> <p>High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment.</p> <ul style="list-style-type: none"> • Do not spray without tip guard and trigger guard installed. • Engage trigger lock when not spraying. • Do not point gun at anyone or at any part of the body. • Do not put your hand over the spray tip. • Do not stop or deflect leaks with your hand, body, glove, or rag. • Follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing equipment. • Tighten all fluid connections before operating the equipment. • Check hoses and couplings daily. Replace worn or damaged parts immediately.
   	<p>FIRE AND EXPLOSION HAZARD</p> <p>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> • 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. • Use only grounded hoses. • Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are antistatic or conductive. • Stop operation immediately if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem. • Keep a working fire extinguisher in the work area.

! WARNING



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 from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure.
- Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- 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

Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.

- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.



PERSONAL PROTECTIVE EQUIPMENT

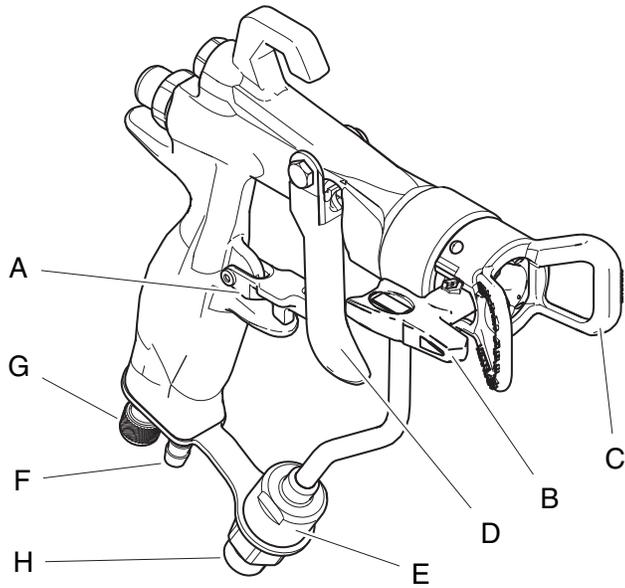
Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

CALIFORNIA PROPOSITION 65

This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

Component Identification



Ref.	Description
A	Trigger Lock
B	Spray Tip
C	Safety RAC Guard
D	Trigger
E	Filter/Filter Housing
F	Air Hose Connection
G	Air Adjustment Valve
H	Fluid Hose Connection

Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.



This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

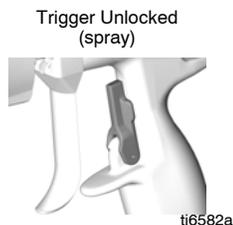
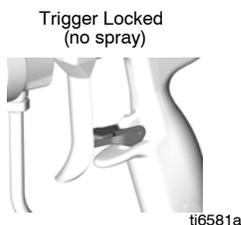
1. Lock trigger. Turn OFF power and turn pressure control to lowest pressure setting.
2. Unlock trigger. Hold gun against side of flushing pail. Trigger gun into pail to relieve pressure.

If you suspect spray tip or hose is clogged or that pressure has not been fully relieved after following the steps above, **VERY SLOWLY** loosen tip guard retaining nut or hose end coupling to relieve pressure gradually, then loosen completely. Clear hose or tip obstruction.

Gun Trigger Lock



To prevent injury when the gun is not in use, always lock the trigger if unit is being shut down or left unattended.



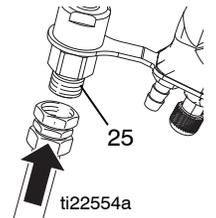
Setup



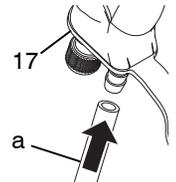
Make sure sprayer is turned off and unplugged from power source and trigger lock is locked. Refer to your sprayer instruction manual for priming and spray instructions.

Connect Gun to Sprayer

1. Attach fluid hose to inlet fitting (25) on gun.



2. **NOTE:** The first time you set up the gun for spraying you will have to cut the translucent red air hose to length desired. For Air-Assisted spraying, attach air supply hose (a) to gun air inlet fitting (17).

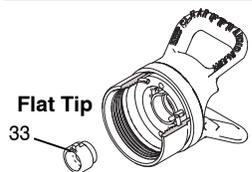
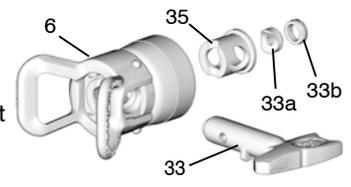


3. Attach other end of air and fluid supply hoses to sprayer. Use two wrenches to tighten all connections securely (see sprayer setup instructions in sprayer operation manual).

Installing Tip (33) and Guard (6) on Gun



1. If equipment has recently been operated, **Relieve Pressure.**
2. Insert seat housing (35) into guard (6).
3. Insert tip (33).
4. Insert seal (33b) over seat (35a) and insert in seat housing (25). Use black seal for water-based materials and orange for solvent and oil-based materials.
5. Install guard (6) over end of gun. Hand tighten.

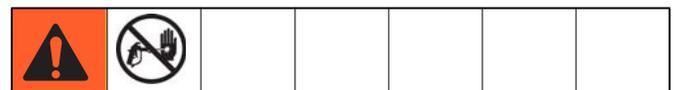


If you notice fluid leaking from front of gun, replace the seat (33a) and/or retighten the guard nut.

Operation

NOTE: The following instructions are for guns used with Graco's FinishPro Sprayers. See the sprayer instruction manual. If you are using a different sprayer, see your equipment instruction manual.

When using a FinishPro II 295 model sprayer, air regulation is only provided at the gun. The FinishPro II 395 and 595 model sprayers provide additional air regulation at the sprayer.



1. Unlock trigger (1a).

Component Identification

2. Be sure the arrow shaped tip (33) faces forward (spray).
3. Hold gun perpendicular and approximately 12-inches (304 mm) from surface. Move gun first, then pull gun trigger (3) to spray a test pattern.
4. Always hold gun at a right angle from the surface. Do not make an arc with the gun. This causes an uneven coat of fluid. To obtain an even finish, use smooth, even strokes across the object being sprayed with a 50% overlap.

Clearing a Clog



1. **Relieve pressure.** Lock trigger (1a).
2. **Flat Tip only:** Remove and clean guard and tip.
3. Rotate tip (33) 180°. Unlock trigger (1a). Trigger gun into pail or onto ground to remove clog.
4. Lock trigger (1a). Rotate tip (33) 180° back to spray position.

Spraying

Refer to your Sprayer Instruction manual. The following instructions are for guns used with Graco's FinishPro Sprayers.



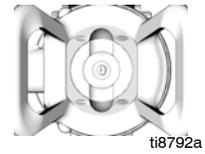
Air-Assisted Spraying

1. Set sprayer function selection switch to **AIRLESS** spraying.
2. Open gun air pressure regulator all the way.
3. Prime pump following priming instructions provided in sprayer operation manual.
4. Turn sprayer fluid pressure control to highest setting.
5. Unlock trigger (1a). While triggering gun, turn down sprayer fluid pressure until you notice tails forming in spray pattern.
6. Stop triggering gun.
7. Set sprayer toggle switch to **AA (Air Assisted)** spraying.
8. Trigger gun. While spraying increase air pressure regulator until tails disappear.
9. Use gun air regulator to fine tune spray pattern.

Airless Spraying

1. Set sprayer function selection switch to **AIRLESS** spraying.
2. Prime pump following priming instructions provided in sprayer operation manual.
3. Start with sprayer pressure turned to lowest setting.
4. Spray a test pattern. Gradually increase sprayer pressure until you achieve a consistent spray pattern, without heavy edges. Use a smaller tip if pressure adjustment alone does not eliminate edges.

Note: If you are getting an irregular spray pattern, clean air holes with solvent and a soft brush or toothpick. Do not use metal tools to clean the air cap holes as this may scratch them. Scratches can distort the spray pattern.



Maintenance



Before performing any maintenance on gun, read all warnings on front cover of this manual and **relieve pressure**, page 5.

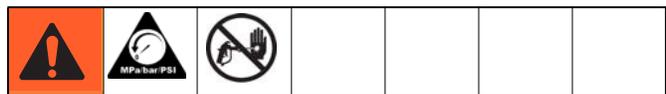
Daily Maintenance

Flush gun after each work shift and store in a dry location.

Do not immerse the gun or any parts in water or cleaning solvents.

- Do not point gun up while cleaning it.
- Do not wipe gun with cloth soaked in solvent; wring out excess.
- Solvent left in gun air passages could result in a poor quality paint finish. Do not use any cleaning method that may allow solvent into gun air passages.

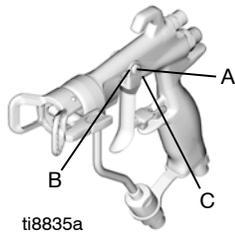
Flushing and Cleaning



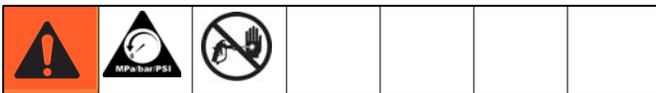
- Flush gun before changing colors, before storing and before repairing gun.
- Flush at lowest possible pressure. Check connectors for leaks and tighten as necessary.
- Flush with fluid that is compatible with fluid being dispensed and equipment's wetted parts.

1. **Relieve pressure**, page 5. Unplug sprayer from outlet.
2. Remove tip (33) and guard (6).
3. Disconnect air supply hose from gun.
4. Remove sprayer siphon tube set from paint and place in flushing fluid. See Cleanup instructions in sprayer operation manual 311905.
5. Plug sprayer in outlet. Set sprayer function selection switch to AIRLESS.
6. Increase pressure slowly. Point gun down into a grounded metal container. Pull gun trigger and flush gun with solvent until all traces of fluid are removed from gun passages.
7. Turn sprayer function selection switch to OFF.
8. **Relieve pressure**, page 5.
9. Disconnect fluid supply hose from gun.
10. If it is necessary to remove diffuser (5) to clean, trigger gun while you remove the diffuser with the gun tool (30).
11. Dip the soft end of a soft-bristle brush into a compatible solvent. **Do not continuously soak the brush's bristles with solvent and do not use a wire brush.**

12. With gun pointed down, clean front of the gun with the soft-bristle brush and solvent.
13. Scrub the tip (33) and guard (6) with soft-bristle brush. To clean out air cap holes, use a soft tool such as a toothpick, to avoid damaging critical surfaces. Blow air through the spray tip to ensure the orifice is clean.
14. If the diffuser (5) was removed, trigger the gun while you reinstall the diffuser with the gun tool (30). Tighten the diffuser securely to obtain a good seal. Torque to 155-165 in-lb (18-19 N.m). When properly tightened, the flange will bottom out on the gun.
15. Install tip (33) and guard (6) on gun, page 5.
16. Using a soft cloth dampened in solvent, wipe off outside of gun.
17. After cleaning, lubricate the following parts weekly with lubricant 111265.
 - Trigger pivot pin (A)
 - Both sides of gun where trigger contacts gun (B)
 - Fluid needle shaft, behind trigger (C)

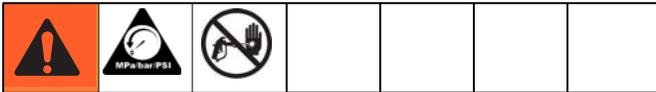


Cleaning/Replacing Filter (24)



1. **Relieve pressure**, page 5. Lock trigger (1a).
2. Unscrew fluid inlet fitting (25).
3. Remove inline fluid filter (24).
4. Clean filter with soft brush and compatible solvent. Inspect filter and if damaged, replace it.
5. Install inline fluid filter (24) into base of fluid tube (16).
6. Screw fluid inlet fitting (25) into base of tube. Torque to 175-185 in-lb (20-21 N•m).

Repair



Seat Repair

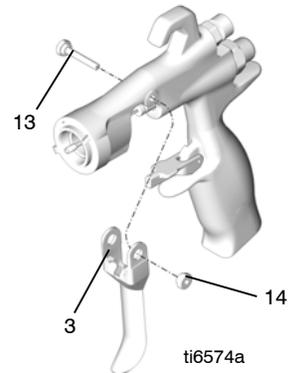
Use Carbide Seat Repair Kit - 249456. For best results use all new parts provided in kit.

1. **Relieve the pressure**, page 5. Remove the fluid and air hoses from the gun.
2. Remove the guard (6) and spray tip (33).
3. Trigger gun to pull the needle housing off the seat while you unscrew the diffuser (5) from the gun body (1), using gun tool (30).
4. Inspect o-rings (5e, 5f, and 6a) in place. Carefully remove the o-rings from the diffuser housing (5a) and replace if necessary.
5. Remove the seat nut (5d), seat (5c) and seat gasket (5b) using a 5/32 in. hex wrench.
6. Inspect seat (5c) and seat gasket (5b) and replace if necessary.

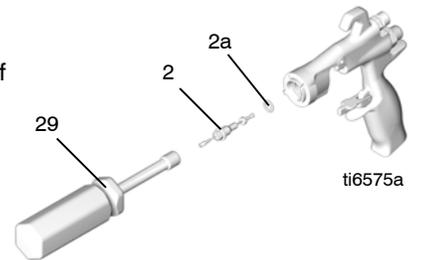
7. Reinstall the seat gasket (5b) seat (5c) and seat nut (5d). Torque to 45-50 in-lb (5.0-5.6 N•m). Be sure not to overtighten nut.
 - When reinstalling the carbide seat (5c), the tapered end of the seat must point toward the gun tip.

Needle Repair (2)

1. **Relieve pressure**, page 5. Remove the diffuser (5), see Seat Repair, page 7.
2. Remove the trigger pivot pin nut (14), pivot pin (13), and trigger (3) using the gun tool (30) and nut driver (29).

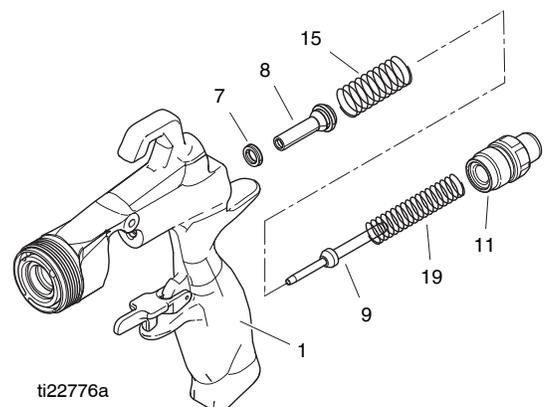


3. Remove the fluid needle assembly (2) from the front of the gun by using the nut driver tool (29). If the needle is bent or damaged, or the packing is worn or leaking, replace the entire needle assembly. If replacement is necessary, be sure to remove the o-ring (2a) as it may stick inside the gun body.



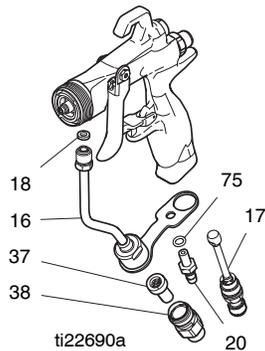
Air Valve Repair (8)

1. Unscrew the spring cap (11) from the back of the gun body (1) using the gun tool (30). Remove the two springs (15 and 19), the shaft (9), and seat (10).
2. Push the air valve assembly (8) out the back of the gun.
3. Inspect the u-cup (7) in the gun body (1). If the u-cup is worn or leaking, carefully remove the u-cup from the front of the gun body, using a pick.



Fluid Tube Replacement (16)

1. Remove the air inlet fitting (17) using the gun tool (30) and remove the screw (20).
2. Unscrew the fluid inlet fitting (25). Remove and clean or replace the inline fluid filter (24).
3. Unscrew fluid tube connector (16a) from fluid inlet. Carefully remove gasket (22).

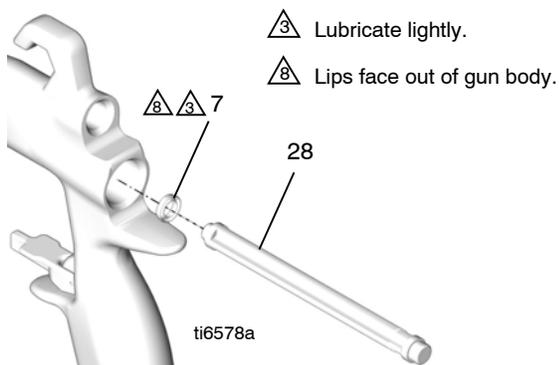


Flat Tip Conversion Kit (Optional)

The Flat Tip Conversion Kit allows AAM Flat Tips to be used with this gun. Order part number 288514.

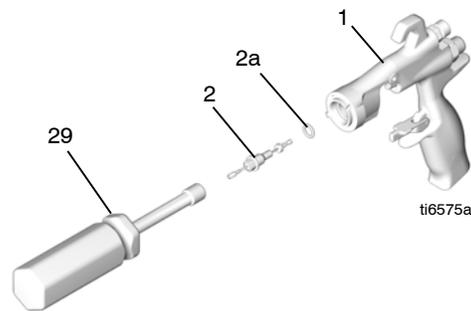
Reassembly

1. Install the tube gasket (22) in the gun. Hand tighten the fluid tube connector (16a) into the gun's fluid inlet. Antigen the air inlet fitting (17) and screw (20). Torque the fluid tube connector to 150-160 in-lb (17-18 N•m). Torque the air inlet fitting to 175-185 in-lb (20-21 N•m). Torque the fluid tube bracket screw to 50-60 in-lb (6-7 N•m).
2. Install the inline fluid filter (24) into the base of the fluid tube (16). Screw the fluid inlet fitting (25) into the base of the tube. Torque to 175-185 in-lb (20-21 N•m).
3. Place the new u-cup (7) on the seal installation tool (28), with the u-cup lips facing the tool. Push the u-cup into the back of the gun until you feel a definite snap.



4. Lubricate the front end of the air valve assembly (8). Gently slide the air valve assembly into the back of the gun, passing through the u-cup (7), as far as it will go. Be careful not to damage the u-cup.
5. Slide the seat (10) onto the shaft (9). Be sure that the tapered end of the seat is toward the thicker end of the shaft. Carefully insert the shaft (9) and seat (10) in the air valve (8).

6. Install the two springs (15 and 19). Screw the spring cap (11) into the back of the gun body. Torque to 175-185 in-lb (20-21 N•m).
7. Lightly lubricate the needle assembly o-rings and shaft where the packing slides. Be sure that the o-ring (2a) is in place in the gun body (1).
8. Insert the fluid needle assembly (2) into the front of the gun. Use the nut driver (29) to screw the fluid needle assembly into the gun body (1) and torque to 50-60 in-lb (6-7 N•m).



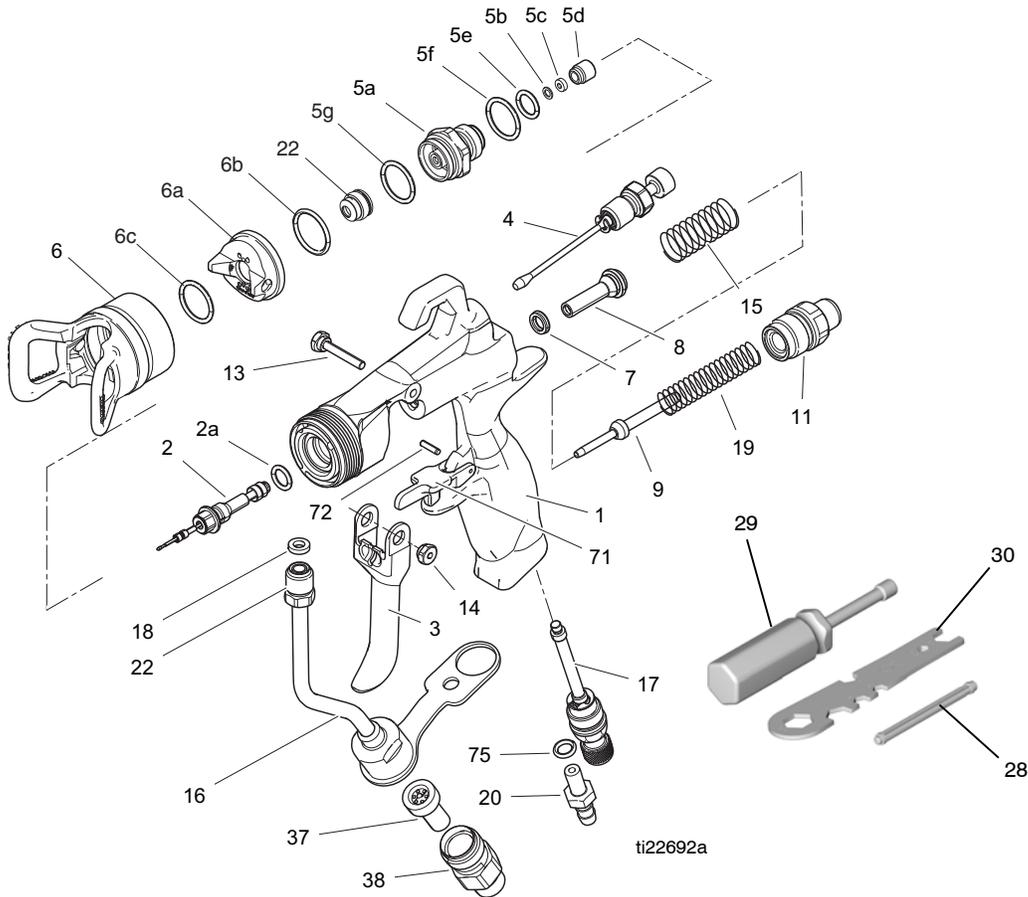
9. Install the trigger (3), pivot pin (13), and nut (14). Use low strength thread locker and be sure that the brass piece of the fluid needle assembly (2) is behind the trigger. Lubricate both sides of the pivot pin where the trigger contacts the pin and lubricate the boss on both sides of the gun where the trigger contacts the gun body. Torque the nut to 20-30 in-lb (2-3 N•m).
10. Trigger the gun to pull the needle back while you screw the diffuser assembly (5) into the gun body (1) using the gun tool (30). Torque to 155-165 in-lb (18-19 N•m). When properly tightened, the flange will bottom out on the gun.
11. Attach the guard (6) and spray tip (33), page 5.

Translated Manuals

Spanish - 333183	Estonian - 333195
French - 333184	Latvian - 333196
Dutch - 333185	Lithuanian - 333197
German - 333186	Polish - 333198
Italian - 333187	Hungarian - 333199
Turkish - 333188	Czech - 333200
Greek - 333189	Slovakian - 333201
Croatian - 333190	Portuguese - 333202
Danish - 333191	Finnish - 333203
Chinese - 333192	Swedish - 333204
Japanese - 333193	Norwegian - 333206
Korean - 333194	Russian - 333207

Translated manuals can be obtained from a distributor or by visiting www.graco.com.

Parts (262932)



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		BODY, gun	1	18	115133	GASKET, tube	1
2◆		NEEDLE, assy, 3/32 carbide ball	1	19	115141	SPRING, compression	1
2a	110004	O-RING	1	20	16X404	FITTING, barbed	1
3	249585	TRIGGER (includes 13, 14)	1	22	AAM309	TIP, G15, G40	1
4	249135	VALVE, fan control assy	1	28	192282	TOOL, installation, seal	1
5	288192	DIFFUSER, assy, high pressure	1	29	117642	TOOL, nut driver	1
5a		DIFFUSER, housing	1	30	15F446	TOOL, gun	1
5b◆		NYLON, gasket	1	31▲	222385	TAG, warning (not shown)	1
5c◆		CARBIDE, seat	1	32▲	172479	TAG, warning (not shown)	1
5d◆		NUT, seat	1	37	224453	FILTER, tip	1
5e*	111457	O-RING, PTFE	1	38	15F186	FITTING, hose	1
5f*	109450	O-RING, PTFE	1	50	017480	ADHESIVE, thread locker	1
5g*	111116	O-RING	1	70	15F185	INSERT, fluid	1
6	249256	GUARD, tip assembly	1	71	249423	STOP, trigger, molded	1
6a	249180	AIRCAP, assembly	1	72		PIN, dowel	2
6b	109213	PACKING, o-ring	1	73	117517	O-RING	1
6c	15G320	WASHER, PTFE, 1.2 OD	1	74	15U104	TAG, important-tighten tip (not shown)	1
7	188493	PACKING, u-cup, gun	1	75	156454	PACKING, o-ring	1
8*		VALVE, air, assembly	1				
9	16A529	SHAFT, fluid spring	1				
11	15F195	CAP, spring	1				
13	15F739	PIN, pivot	1				
14	15F740	PIN, pivot, nut	1				
15	114069	SPRING, compression	1				
16	249136	TUBE, assy	1				
17	24U606	VALVE, assy, inlet air	1				

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

◆ Included in Needle/Seat Repair Kit 255160 (purchase separately)

* Included in Seal Repair Kit 249422 (purchase separately)

Technical Data

G40 Air Assisted Airless Spray Gun		
	US	Metric
Maximum Working Fluid Pressure	4 000 psi	28 MPa, 280 bars
Maximum Working Air Pressure	100 psi	0,7 MPa, 7 bars
Maximum Working Fluid Temperature	110°F	43°C
Fluid inlet	1/4–18 npsm	
Air Inlet	1/4-18 npsm	
Gun Weight	16 oz	450 grams
Sound Pressure*: 20 psi (140 kPa, 1.4 bar)	66.9 dB(A)	
Sound Pressure*: 100 psi (0.7 kPa, 7 bar)	80.0 dB(A)	
Sound Power*: 20 psi (140 kPa, 1.4 bar)	76.8 dB(A)	
Sound Power*: 100 psi (0.7 kPa, 7 bar)	89.9 dB(A)	
Wetted Parts	Stainless Steel, Carbide, Ultra High Molecular Weight Polyethylene, Acetal, PTFE, Nylon, Flouroelastomer	

*All readings were taken with fan valve fully closed, (full fan size) at 20 psi (140 kPa, 1.4 bar) and 100 psi (0.7 kPa, 7 bar) and at the assumed operator position. Sound Power tested to ISO 9614-2.

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, 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.

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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.

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