Instructions – Parts List



Important Safety Instructions Read all warnings and instructions in this manual. Save these instructions.

Primer Gun

308980 rev.D

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

Part No. 241778



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Symbols

Warning Symbol

WARNING

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.

A WARNING

EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture, malfunction or start unexpectedly 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 uncertain about usage, 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.
- Use this equipment only in low pressure systems.
- Do not exceed the maximum working pressure of the lowest rated system component. This equipment has a **100 psi (7 bar, 0.7 MPa) maximum working fluid pressure**.
- Route the hoses away from the traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose Graco hoses to temperatures above 180°F (82°C) or below –40°F (–40°C).
- Wear hearing protection when operating this equipment.
- Use fluids or solvents that are compatible with equipment wetted parts. See the **Technical Data** section of all equipment manuals. Read the fluid and solvent manufacturer's warnings.
- Methylene Chloride with formic or propionic acid is not recommended as a flushing or cleaning solvent with this gun or any other device with nylon or aluminum components as it can damage these parts.
- Comply with all applicable local, state and national fire, electrical and other 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 fluid leaks with your hand, body, glove or rag.
	• Follow the Pressure Relief Procedure on page 6 when: you are instructed to relieve pressure; stop spraying; clean, check or service the equipment; and install or clean fluid nozzles.
	 Do not point the primer gun at anyone or at any part of the body.
	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
	Poor air ventilation, open flames, or sparks can cause a hazardous condition and result in fire or explosion and serious injury.
Aunt	• Provide fresh air ventilation to avoid the buildup of flammable fumes from solvent or the fluid being applied.
	• Extinguish all open flames or pilot lights in the work area.
	Electrically disconnect all equipment in the work area.
	 Keep the work area free of debris, including solvent, rags and gasoline.
	• Do not turn on or off any light switch in the work area while operating or if fumes are present.
	• Do not smoke in the work area.
	Do not operate a gasoline engine in the work area.
	TOXIC FLUID HAZARD
Ö	Hazardous fluids 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. Read the fluid manufacturer's warnings.
	• Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.
	• Dress appropriately for your application. Wear the appropriate protective clothing, gloves, eyewear, and respirator.

Setup

1. Connect the Fluid Hose

NOTE:

- Before connecting the fluid line, blow it out with air and flush it with solvent. Use solvent which is compatible with the fluid to be applied.
- Install a fluid regulator (F) on the fluid line to control fluid pressure to the gun. See Fig. 2.
- Filter the fluid line of coarse particles and sediment to avoid clogging the fluid nozzle and causing finishing defects.
- A. Connect the fluid hose (A) to the gun fluid inlet (B) 1/4–18 npsm [R 1/4–19] compound thread.



B. Connect the other end of the fluid hose (A) to a regulated fluid supply line (G).

NOTE: Fig. 2 shows the fluid regulator (F) and fluid shut-off valve (H) on the fluid supply line (G).



2. Flush the Primer Gun

Before putting any primer through the gun, flush the gun out with a solvent that is compatible with the fluid to be applied, using the lowest possible fluid pressure and a grounded metal container.





Setup

3. Relieve the Pressure

PRESSURIZED EQUIPMENT HAZARD

To reduce the risk of a serious injury whenever you are instructed to relieve pressure, follow the **Pressure Relief Procedure** on page 6.

4. Adjust the Flow Pattern

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 COMPONENT RUPTURE HAZARD
 Do not exceed the 100 psi (7 bar, 0.7 MPa) maximum fluid pressure of this

gun. Higher pressures can cause parts to rupture and result in serious injury.

Follow these steps to establish the correct fluid flow:

A. Turn the fluid control knob (19) counterclockwise until no restriction of the trigger movement is felt, then turn out another half turn. When the knob is turned far enough, the trigger should be able to touch the gun handle when the gun is triggered.



B. Adjust the fluid flow using the fluid pressure regulator (L) installed in the gun fluid line.





C. If further fluid flow restriction is needed at the gun, turn the fluid control knob (19) clockwise to reduce the volume of fluid output by limiting the needle travel.





WARNING

PRESSURIZED EQUIPMENT HAZARD

To reduce the risk of an injury from accidental spray from the gun, do not remove the fluid control knob (19) while the gun is pressurized with fluid. Follow the **Pressure Relief Procedure** on page 6.

Restricting the trigger and fluid needle travel by continuously spraying with the fluid control knob closed (turned clockwise), will cause accelerated abrasive wear on the fluid needle and wear on the trigger valve interface.

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Operation

Pressure Relief Procedure

PRESSURIZED EQUIPMENT HAZARD

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. To reduce the risk of an injury from accidental spray from the gun, 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 fluid nozzle.
- 1. Turn off the fluid supply to the gun.
- 2. Trigger the gun into a grounded metal waste container to relieve fluid pressure.

Applying the Fluid

- 1. To achieve the best results when applying fluid, keep the gun perpendicular to the surface and maintain a consistent distance from the object.
- 2. To obtain an even finish, use smooth, even strokes across the object.

PRESSURIZED EQUIPMENT HAZARD

To reduce the risk of a serious injury whenever you are instructed to relieve pressure, follow the **Pressure Relief Procedure** on page 6.

A CAUTION

Clean all parts with a non-conductive solvent, compatible with the fluid being applied. Conductive solvents can cause the gun to malfunction.

Methylene chloride with formic or propionic acid is not recommended as a flushing or cleaning solvent with this gun as it will damage aluminum and nylon components.

Solvent left in gun passages could result in a poor performance. Do not use any cleaning method which may allow solvent into the gun passages.

Do not point the gun up while cleaning it.



Do not wipe the gun with a cloth soaked in solvent; ring out the excess.



Do not immerse the gun in solvent.



General System Maintenance

- 1. Relieve the pressure.
- 2. Check for any fluid leakage from the gun and fluid hoses. Tighten fittings or replace equipment as needed.
- 3. Flush the gun whenever you are done operating the gun.

WARNING

PRESSURIZED EQUIPMENT HAZARD

To reduce the risk of a serious injury whenever you are instructed to relieve pressure, follow the **Pressure Relief Procedure** on page 6.

- 1. Relieve the pressure.
- 2. Disconnect the fluid supply hose (A) from the gun.



4. Point the gun down into a grounded metal container, and flush the gun with solvent until all traces of primer are removed from the gun passages.



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Fig. 9

- 5. Turn off the solvent supply.
- 6. Relieve the pressure. Disconnect the solvent supply.



3. Connect the solvent supply hose (B) to the gun.

Fig. 7

7. Disconnect the solvent supply hose (B) from the gun.



Trigger the gun while you remove the fluid nozzle (12) from the gun with the gun tool (24).

Trigger the gun whenever you tighten or remove the nozzle. This keeps the needle seat away from the nozzle seating surface and prevents the seat from being damaged.

- 9. Clean the fluid nozzle with solvent.
- 10. Dip the 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.





11. With the gun pointed down, clean the front of the gun, using the soft-bristle brush and solvent.

Fig. 12





- 12. Scrub the fluid nozzle with the soft-bristle brush. Clean the fluid nozzle daily, minimum. Some applications require more frequent cleaning.
- 14. Dampen a soft cloth with solvent and wring-out the excess. Point the gun down and wipe off the outside of the gun.



13. Trigger the gun while you install the fluid nozzle (12) with the gun tool (24). Tighten the nozzle securely to 125-135 in-lb (14-15 N•m) to obtain a good seal.



Fig. 16

Lubricate

- 15. After cleaning the gun, lubricate the following parts with lubricant 070303 daily:
 - Fluid control knob (19) threads •
 - Trigger pivot pin (15)
 - Fluid needle shaft (13a)







Fig. 15 _____

Troubleshooting

▲ WARNING

PRESSURIZED EQUIPMENT HAZARD

To reduce the risk of a serious injury, follow the **Pressure Relief Procedure** on page 6 before checking or repairing any part of the gun or system.

PROBLEM	CAUSE	SOLUTION
Fluid flow is fluttering while being applied	 Fluid nozzle not tight enough 	 Tighten fluid nozzle to 125–135 in-lb (14–15).
	Fluid filter clogged	Check fluid filter.
	 Fluid control knob not properly set 	• Turn the fluid control knob out.
Fluid flow fades while applying fluids	Fluid pressure too low, causing fluid flow to reduce when gun is elevated	Raise fluid pressure at source.
Fluid system will not operate at low enough fluid pressure [below 10 psi (0.7 bar, 70 kPa)]	There is no fluid regulator, or air regulator on pressure pot is not sensitive enough at low pressures	Add low pressure fluid regulator, or add more sensitive low pressure air regulator on pressure pot.

Items Needed for Service

- Gun Tool provided
- Packing Installation Tool provided
- Adjustable Wrench
- Screw Driver
- Compatible Solvent

Fluid Packings Replacement

WARNING

PRESSURIZED EQUIPMENT HAZARD

To reduce the risk of a serious injury, follow the **Pressure Relief Procedure** on page 6 before checking or repairing any part of the gun or system.

NOTE:

- Order Fluid Packing Kit 239640. The kit includes the spreader, u-cup, and spacer.
- Clean parts with a solvent that is compatible with the parts and the fluid being applied.
- Lightly lubricate the parts indicated in Fig. 20 with lubricant 070303.
- 1. Relieve the pressure.
- Trigger the gun while you remove the fluid nozzle (12) with the gun tool (24).

Trigger the gun whenever you tighten or remove the nozzle. This keeps the needle seat away from the nozzle seating surface and prevents the seat from being scratched.



Fig. 18 __

3. Remove the fluid control knob (19) and compression spring (20). See Fig. 20.

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- Loosen packing screw (8) and pull the fluid needle (13) out the back of the gun.
- 5. Remove the screw (11), pin (15), and trigger (10).
- 6. Remove the hex nut (9) with the gun tool (24).
- 7. Remove the housing (2) and insert (4).
- 8. Unscrew the packing screw (8) from the insert (4) with the gun tool (24).
- 9. Use the back end of the fluid needle (13) to push the three fluid packings (5, 6, and 7) out of the insert (4). Be careful not to damage the needle or insert. Discard the old fluid packings.
- 10. Check the fluid needle (13) for damage or excessive wear. Replace needle tip or entire needle if necessary.

- 11. Place the new fluid packings (5, 6, and 7) and packing scew (8) onto the needle (13). See Fig. 19 for the orientation of the parts.
- 12. Insert the fluid needle (13) into the back of the insert (4) to install the fluid packings (5, 6, and 7).
- Tighten the packing screw (8) just enough to hold the packings (5, 6, and 7) in the insert (4). The needle (13) must move freely. Remove the needle.

NOTE: To ensure proper alignment of the parts, follow the next steps in the order they are given.

- 14. Slide the insert (4) into the housing (2). See Fig.20. Align the housing with the slot and lip (D) on the gun and slide the insert into the gun body (1).
- 15. Tighten the hex nut (9) onto the insert (4) handtight, then loosen the nut about one turn so the insert (4) and housing sit loosely in the gun body.
- 16. Lubricate and install the fluid needle (13).
- 17. Lubricate the fluid control knob threads (19), and install the compression spring (20) and adjustment knob.
- Install the trigger (10), pin (15), and screw (11). Torque the screw to 20–30 in-lb (2.3–3.4 N•m).

- To avoid galling of the fluid nozzle seat in the insert (4), apply a thin film of lubricant to the seat. Trigger the gun while you install the fluid nozzle (12) with the gun tool (24). Torque the nozzle securely to 145–155 in-lb (16–17 N•m).
- 20. Tighten the hex nut (9) securely to 125–135 in-lb (14–15 N•m).







- 21. To tighten the packing screw (8), turn the screw in until it touches the fluid packings (5, 6, and 7), then tighten one full turn to pre-set the packings. Loosen the screw, then turn it in until it touches the packings again. Tighten the screw 1/12 turn more (equal to half the distance between points on the hex head).
- 22. Trigger the gun to test the needle movement. If the needle does not return after the trigger is released or is slow in returning, loosen the packing screw (8) slightly until the needle returns freely.
- 23. Make sure the gun fluid packings are sealing properly by spraying solvent at low pressure before fully pressurizing the gun with the fluid to be applied.

If the fluid packings leak, tighten the packing screw (8) slightly and retest until the packings and needle seal completely.

Complete Gun Packing Replacement

WARNING

PRESSURIZED EQUIPMENT HAZARD

To reduce the risk of a serious injury, follow the **Pressure Relief Procedure** on page 6 before checking or repairing any part of the gun or system.

NOTE:

• Clean parts with a solvent that is compatible with the parts and the fluid being applied.

- Lightly lubricate the parts indicated in Fig. 20 with lubricant 070303.
- 1. Relieve the pressure.
- Trigger the gun while you remove the fluid nozzle (12) with the gun tool (24).

A CAUTION

Trigger the gun whenever you tighten or remove the nozzle. This keeps the needle seat away from the nozzle seating surface and prevents the seat from being scratched.

- 3. Remove the fluid control knob (19) and compression spring (20). See Fig. 20, page 13.
- Loosen packing screw (8) and pull the fluid needle (13) out the back of the gun.
- 5. Remove the screw (11), pin (15), and trigger (10).
- 6. Remove the hex nut (9) with the gun tool (24).
- 7. Remove the housing (2) and insert (4).
- 8. Unscrew the packing screw (8) from the insert (4) with the gun tool (24).
- 9. Use the back end of the fluid needle (13) to push the three fluid packings (5, 6, and 7) out of the insert (4). Be careful not to damage the needle or insert. Discard the old fluid packings.

- 10. Place the new fluid packings (5, 6, and 7) and packing screw (8) onto the needle (13). See Fig. 19, page 13, for the orientation of the parts.
- 11. Insert the fluid needle (13) into the back of the insert (4) to install the fluid packings (5, 6, and 7).
- 12. Tighten the packing screw (8) just enough to hold the packings (5, 6, and 7) in the insert (4). The needle (13) must move freely. Remove the needle.
- 13. Remove the u-cup (18) from the gun body. The threaded end of the needle (13) can be used to push out the u-cup. Be careful not to damage needle or sealing surface. See Fig. 21.
- 14. Place the new u-cup (18) on the seal installation tool (25), with the u-cup lips facing the tool as shown in Fig. 22.
- 15. Push the packing (16) into the back of the gun until a definite snap is felt.
- Remove the u-cup seal (18) from the fluid valve nut (17). Be careful not to damage the seal surface or the nut's internal threads.
- 17. Install the new u-cup seal (18) with the seal installation tool (25); the u-cup lips must face toward the tool as shown in Fig. 23. This will help apply even pressure to the u-cup lips and avoid damaging them.
- Push the u-cup seal (18) into the fluid valve nut (17) until a definite snap is felt.









NOTE: To ensure proper alignment of the parts, follow the next steps in the order they are given.

- 19. Slide the insert (4) into the housing (2), and install them onto the gun body (1). Align the housing with the slot and lip (D) on the gun body (1).
- 20. Tighten the hex nut (9) onto the insert (4) handtight, then loosen the nut about one turn so the insert (4) and spray housing sit loosely in the gun body.
- 21. Check the fluid needle (13) for damage or excessive wear. Replace needle tip or entire needle assembly if necessary.
- 22. Lubricate the outside of the hex plug (22) and place it on the fluid needle (13), against the nut (B). See Fig. 24. This helps align the entrance of the air valve stem into the inside diameter of the u-cup (18) without damaging the u-cup lip.
- 23. Install the fluid needle (13) and the actuator valve (23) into the back of the gun.



- 24. Tighten the fluid valve nut (17) to 125–135 in-lb (14–15 №m).
- 25. Install the needle spring (20) and fluid control knob (19).
- Install the trigger (10), pivot pin (15), and screw (11). Torque the screw to 20–30 in-lb (2.3–3.4 N•m).
- 27. To avoid galling of the fluid nozzle seat in the insert (4), apply a thin film of lubricant to the seat. Trigger the gun while you install the fluid nozzle (12) with the gun tool (24). Torque the nozzle securely to 145–155 in-lb (16–17 N•m).
- 28. Tighten the hex nut (9) securely to 125–135 in-lb (14–15 N•m).
- 29. To tighten the packing screw (8), turn the screw in until it touches the fluid packings (5, 6, and 7), then tighten one full turn to pre-set the packings. Loosen the screw, then turn it in until it touches the packings again. Tighten the screw 1/12 turn more (equal to half the distance between points on the hex head).
- Trigger the gun to test the needle movement. If the needle does not return after the trigger is released or is slow in returning, loosen the packing screw (8) until the needle returns freely.
- 31. Make sure the gun fluid packings are sealing properly by spraying solvent at low pressure before fully pressurizing the gun with the fluid to be applied.

If the fluid packings leak, tighten the packing screw (8) slightly and retest until the packings and fluid needle seal completely.

Parts

Item 13 includes 13a-13d



Parts

Part No. 241778, Primer Gun Assembly

Ref. No.	Part No.	Description	Qty.
1	234337	BODY, gun	1
2	195229	SPRAY HOUSING ASSY	1
4	195230	INSERT, fluid	1
5	188494	SPREADER, u-cup	1
6	188495	PACKING, u-cup	1
7	192351	SPACER, packing	1
8	192352	SCREW, packing	1
9	192348	NUT, hex; 1/2–20 UNF	1
10	15D993	TRIGGER, gun	1
11	203953	SCREW, trigger lock	1
12	195228	NOZZLE, fluid	1
13	239643	NEEDLE ASSY.; Includes replaceable items 13a–13d	1
13a	192277	 SHAFT, needle 	1
13b	192304	• TIP, needle, 030"	1
13c	188773	 WASHER, flat 	1
13d	188772	• NUT, hex	1
14	185493	PACKING, u-cup	1
15	192272	PIN, pivot	1

Ref. No.	Part No.	Description	Qty.
17	192355	NUT, fluid valve	1
18	110453	PACKING, u-cup	1
19	192266	KNOB, fluid control	1
20	114072	SPRING, compression	1
21	108984	PLUG, hex, 9/16–18 UNF	1
22	195227	PLUG, hex, 11/16–20 UN	1
23	234363	VALVE, actuator	1
24	15E581	TOOL, gun	1
25	192282	TOOL, packing installation	1
27	070199	SEALANT, anaerobic	A/R
28	070303	LUBRICANT, grease	A/R

These parts are included in Fluid Packing Kit 239640, which may be purchased separately.

Dimensions



Technical Data

Category	Data
Maximum Working Fluid Pressure	100 psi (7 bar, 0.7 MPa)
Fluid Operating Temperature Range	32° F to 140° F (0° C to 60° C)
Weight	17.1 oz. (485 g)
Fluid Inlet	1/4–18 npsm (R1/4–19) compound thread
Wetted Parts	316 and 17–4 PH Stainless Steel, Polyetheretherketone (PEEK), Ultra High Molecular Weight Polyethylene

Accessories

Decomption

239663 SWIVEL, fluid, 1/4-npsm(f) x 1/4-npt(m) 521041 BRUSH, 1/8-npt(f)



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 by an authorized Graco distributor 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.

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.

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In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or 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.

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Graco Information

TO PLACE AN ORDER, contact your Graco distributor, or call one of the following numbers to identify the distributor closest to you: 1–800–328–0211 Toll Free 612–623–6921 612–378–3505 Fax

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