

## Pole Gun with CleanShot™ Shut-off Valve and Contractor® In-line Valve

309237J

EN

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

3600 psi (24.8 MPa, 248 bar) Maximum Working Pressure



### Important Safety Instructions

Read all warnings and instructions in this manual. Refer to your sprayer instruction manual for Pressure Relief, priming, and spray instructions. Save these instructions.



### Important Medical Information

Read the medical alert card provided with the gun. It contains injection injury treatment information for a doctor. Keep it with you when operating the equipment.

#### Model 287023, Series A (North America)

With 3-ft (0.9 m) extension (244163)

#### Model 287024, Series A (North America)

With 6-ft (1.8 m) extension (244164)

#### Model 244161, Series A (North America)

Contractor In-line Valve

#### Model 287026, Series A (Europe)

With 3-ft (0.9 m) extension (244163)

#### Model 287027, Series A (Europe)

With 6-ft (1.8 m) extension (244164)

#### Model 244364, Series A (Europe)

Contractor In-line Valve

#### Model 244368, Series A (Asia)

With 3-ft (0.9 m) extension (244163)

#### Model 244369, Series A (Asia)

With 6-ft (1.8 m) extension (244164)

#### Model 287028, Series A (Asia)

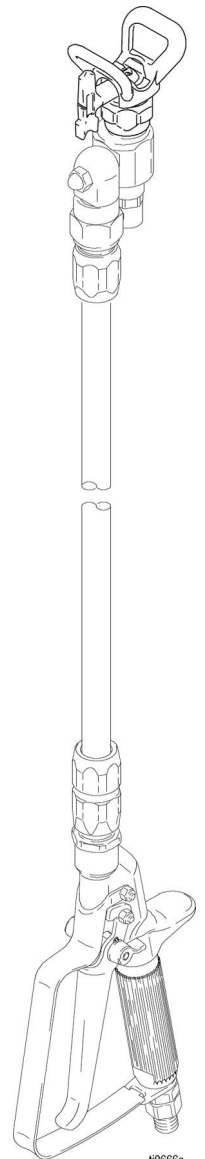
With 3-ft (0.9 m) extension (244163)

#### Model 287029, Series A (Asia)

With 6-ft (1.8 m) extension (244164)

#### Model 244365, Series A (Asia)

Contractor In-line Valve Model





10666a








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# General 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.

 <b>DANGER</b>	
	<p><b>ELECTROCUTION HAZARD</b></p> <p>To avoid death or serious injury, avoid contact with power lines.</p>

 <b>WARNING</b>	
	<p><b>SKIN INJECTION HAZARD</b></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. <b>Get immediate surgical treatment.</b></p> <ul style="list-style-type: none"> <li>• Do not spray without tip guard and trigger guard installed.</li> <li>• Engage trigger lock when not spraying.</li> <li>• Do not point gun at anyone or at any part of they body.</li> <li>• So not push your hand over the spray tip.</li> <li>• Do not stop or deflect leaks with your hand, body, glove, or rag.</li> <li>• Follow the <b>Pressure Relief Procedure</b> when you stop spraying and before cleaning, checking, or servicing equipment.</li> <li>• Tighten all fluid connections before operating the equipment.</li> <li>• Check hoses and couplings daily. Replace worn or damaged parts immediately.</li> </ul>
	
	
	
	
	<p><b>RECOIL HAZARD</b></p> <p>Gun may recoil when triggered. If you are not standing securely, you could fall and be seriously injured.</p>

# ! WARNING

	<p><b>FIRE AND EXPLOSION HAZARD</b></p> <p>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. Paint or solvent flowing through the equipment can cause static sparking. To help prevent fire and explosion.</p> <ul style="list-style-type: none"> <li>• Use equipment only in well-ventilated area.</li> <li>• Eliminate all ignition sources, such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static sparking).</li> <li>• Ground all equipment in the work area. See <b>Grounding</b> instructions.</li> <li>• Never spray or flush solvent at high pressure.</li> <li>• Keep work area free of debris, including solvent, rags and gasoline.</li> <li>• Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.</li> <li>• Use only grounded hoses.</li> <li>• Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are anti-static or conductive.</li> <li>• <b>Stop operation immediately</b> if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.</li> <li>• Keep a working fire extinguisher in the work area.</li> </ul>
	<p><b>EQUIPMENT MISUSE HAZARD</b></p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> <li>• Do not operate the unit when fatigued or under the influence of drugs or alcohol.</li> <li>• Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See <b>Technical Specifications</b> in all equipment manuals.</li> <li>• Use fluids and solvents that are compatible with equipment wetted parts. See <b>Technical Specifications</b> in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheets (SDSs) from distributor or retailer.</li> <li>• Do not leave the work area while equipment is energized or under pressure.</li> <li>• Turn off all equipment and follow the <b>Pressure Relief Procedure</b> when equipment is not in use.</li> <li>• Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.</li> <li>• Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.</li> <li>• Make sure all equipment is rated and approved for the environment in which you are using it.</li> <li>• Use equipment only for its intended purpose. Call your distributor for information.</li> <li>• Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.</li> <li>• Do not kink or over bend hoses or use hoses to pull equipment.</li> <li>• Keep children and animals away from work area.</li> <li>• Comply with all applicable safety regulations.</li> </ul>

 **WARNING****TOXIC FLUID OR FUMES HAZARD**

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.



- Read Safety Data Sheets (SDSs) to know the specific hazards of the fluids you are using.
- Store hazardous fluids in approved containers, and dispose of it according to applicable guidelines.

**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. 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.






# Setup

				
To avoid serious injury from skin injection, do not put your hand in front of the spray tip.				

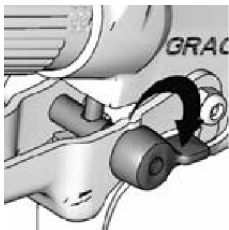
## Pressure Relief Procedure



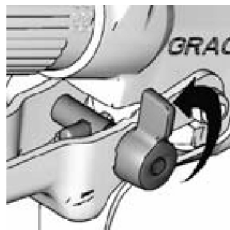
Follow the Pressure Relief Procedure whenever you see this symbol.

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

1. Engage in-line valve trigger lock. Always engage the trigger lock when the sprayer is stopped to prevent the in-line valve from being triggered accidentally.



**LOCK ENGAGED**



**LOCK DISENGAGED**

2. Shut off power to the sprayer.
3. Turn the sprayer pressure control knob to the lowest setting.
4. Disengage the in-line valve trigger lock.
5. Rotate the CleanShot Shut-off Valve knob counterclockwise to the out/flush position.
6. Hold metal part of pole gun firmly to side of grounded metal waste container. Trigger the in-line valve to relive pressure.
7. Engage in-line valve trigger lock.

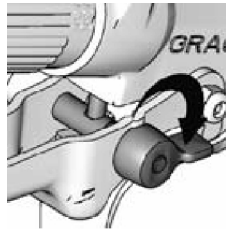
8. Open the dump drain valve on the sprayer to help relieve fluid pressure in the pump, hose, and pole gun. Have a container ready to catch drainage.

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

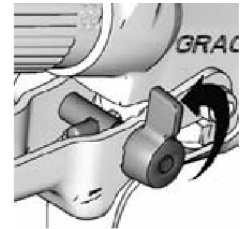
## In-Line Valve Trigger Lock

Lock the in-line valve trigger by rotating the trigger lock lever so it is in line with the trigger.

**NOTE:** In the Lock Engaged position, the lever sits in a detent which holds it in place.



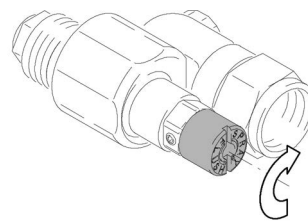
**LOCK ENGAGED**



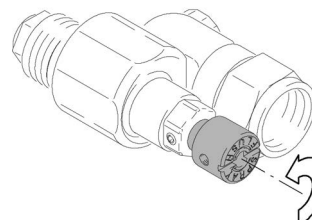
**LOCK DISENGAGED**

## CleanShot Shut-off Valve

The CleanShot Shut-off Valve provides two settings: SPRAY and FLUSH. The valve is factory set to the SPRAY position for spraying at pressures above 700 psi (4.8 MPa, 48 bar). Rotate the valve knob counter-clockwise to the FLUSH position for flushing, cleaning, priming and relieving pressure. The FLUSH position is also used for low pressure spraying applications below 1000 psi (6.9 MPa, 69 bar).



**SPRAY**

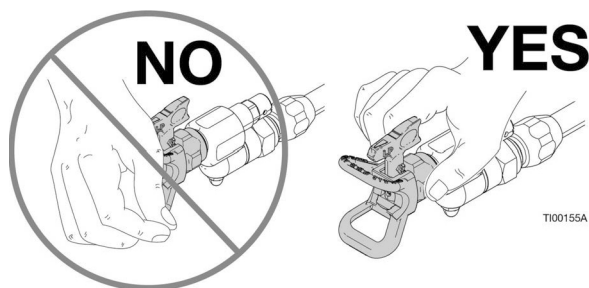


**FLUSH**

## Install Tip and Tip Guard

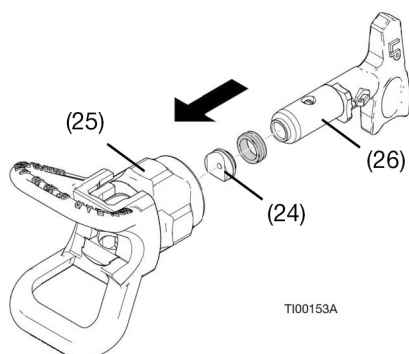


To avoid serious injury from skin injection do not put your hand in front of the spray tip when installing or removing the spray tip and tip guard.

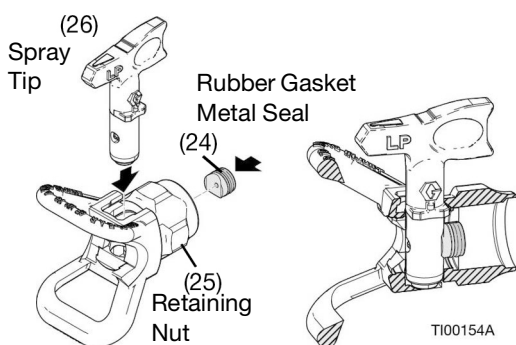


To prevent spray tip leaks, make sure certain spray and tip guard and installed properly.

1. Relieve Pressure. See **Pressure Relief Procedure**, page 6. Engage Trigger lock.
2. Use spray tip (26) to align gasket and seal (24) in the tip guard (25).



3. Insert tip (26) in guard (25).
4. Verify tip and tip guard parts are assembled in the order shown:



5. Install guard (25) over the end of the gun (1). Hand tighten retaining nut.

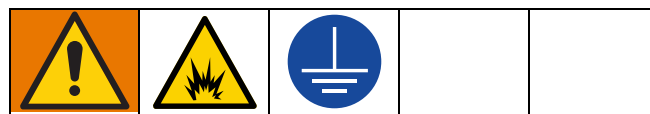
## Assemble Pole Gun

1. Connect to CleanShot shut-off valve to the 3-ft or 6-ft extension. Use a wrench to tighten.

**NOTE:** Be sure seals are in place in the in-line valve and shut-off valve before connecting the extension.

2. Connect the 3-ft or 6-ft extension with CleanShot shut-off valve to the in-line valve. Use a wrench to tighten.
3. Connect a grounded fluid hose to the Contractor in-line valve.

## Grounding



The equipment must be grounded to reduce the risk of static sparking. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current.

Check your local electrical code and pump or sprayer manual for detailed grounding instructions.

- **Pole gun:** grounded through connection to a properly grounded fluid hose and pump.
- **Fluid hose:** use only electrically conductive hoses with a maximum of 500 ft (150 m) combined hose length to ensure grounding continuity. Check electrical resistances of hoses. If total resistance to ground exceeds 29 megaohms, replace hose immediately.
- **Fluid supply container:** follow local code.
- **Object being sprayed:** follow local code.
- **Solvent pails used when flushing:** follow local code. Use only conductive metal pails, placed on a grounded surface. Do not place the pail on a non-conductive surface, such as paper or cardboard, which interrupts grounding continuity.
- **To maintain grounding continuity when flushing relieving pressure:** hold metal part of the pole gun firmly to the side of a grounded metal pail, then trigger the in-line valve

# Operation



To reduce the risk of a fluid injection injury, do not operate the pole gun with the tip guard or trigger guard removed.

## Spraying

1. Start pump. Adjust fluid pressure so spray is completely atomized. Always use lowest pressure that gets desired results. Higher pressure may not improve spray pattern and causes premature tip and pump wear.

**NOTE:** The spray tip orifice size and spray angle determine the coverage and size of the pattern. When more coverage is needed, use a larger spray tip rather than increasing the fluid pressure.

2. Use full-open, full-close trigger action. Hold tip at a right angle to the work surface, about 14 inches (350 mm) away. Do not swing pole gun in arcs. Practice to find the best length and speed of stroke.

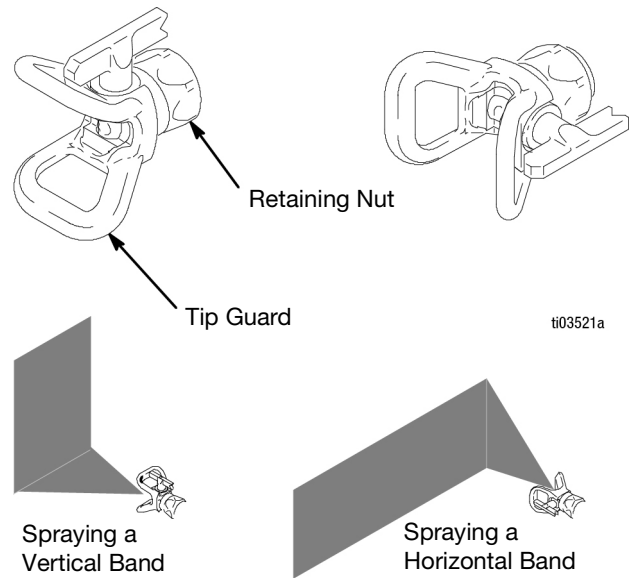
## Changing Spray Pattern Orientation



To avoid serious injury from skin injection do not put your hand in front of the spray tip.

The orientation of the tip guard indicates the orientation of the spray pattern.

1. Perform the **Pressure Relief Procedure**, page 6.
2. Loosen the guard retaining nut and turn the tip guard by hand to change the orientation.



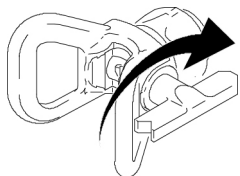
### NOTICE

The openings in the tip guard are designed to reduce paint buildup on the guard while spraying. Any damage to the sharp edges of the openings causes paint to collect at that area. To avoid damaging the tip guard, do not hang the pole gun by the tip guard.

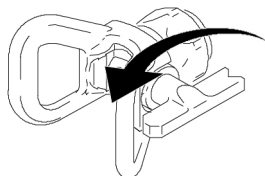


## Clearing a Clogged Spray Tip

Frequently during the job and at the end of each workday, relieve the pressure and manually clean the tip with a solvent-soaked brush. Frequent cleaning helps keep fluid buildup from drying and clogging the spray tip.



**UNCLOG position**



**SPRAY position**

Use the reversible spray tip to quickly clear clogs as follows:

1. Engage the in-line valve trigger lock.
2. Rotate arrow-shaped handle to UNCLOG position.
3. Disengage the in-line valve trigger lock and trigger in-line valve into a pail to remove the clog.
4. Engage the in-line valve trigger lock and rotate the arrow-shaped handle to the SPRAY position.

If the spray tip is still clogged, relieve the pressure by following the **Pressure Relief Procedure**, page 6 and manually clean it. To reduce tip clogs, strain the fluid you are spraying.



To reduce the risk of an injection or splashing fluid in eyes or on skin, follow these precautions before you remove, clean, or change a spray tip or tip guard.

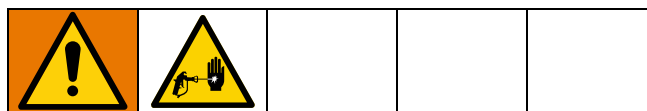
- Do not hold your hand, body, or rag in front of spray tip when cleaning or checking clogged tip.
- Always point tip into the waste container when checking to see if it is cleared.
- Follow the **Pressure Relief Procedure**, page 6 before you wipe fluid buildup off spray tip, before you remove the tip guard or spray tip, and whenever you are instructed to relieve the pressure.

## Flush the CleanShot Shut-off Valve

Rotate the spray valve knob counterclockwise to the flush position (see **CleanShot Shut-off Valve**, page 6) and follow the **Flush the Contractor In-Line Valve** procedure.

## Flush the Contractor In-Line Valve

Always flush the in-line valve thoroughly when you stop spraying for the day and before the fluid being sprayed can dry or set up in the system.



To avoid fire and explosion, always ground equipment and waste container. To avoid static sparking and injury from splashing always flush at the lowest possible pressure.

- Be sure the entire system and flushing pails are properly grounded. See **Grounding**, page 7.
- Remove the spray tip.
- Maintain firm metal-to-metal contact between pole gun and pail during flushing.

1. Use a solvent that is compatible with wetted parts of the pole gun, the rest of the system, and the material being sprayed.
2. Follow flushing instructions for your sprayer.
3. If flushing with water, flush last with a rust inhibitor or Graco Pump Armor to protect the system from corrosion.
4. If necessary, disassemble the pole gun and clean all passages thoroughly with a soft-bristled brush.

### NOTICE

Do not soak the entire in-line valve in solvent. Prolonged exposure to solvent can ruin the packings.

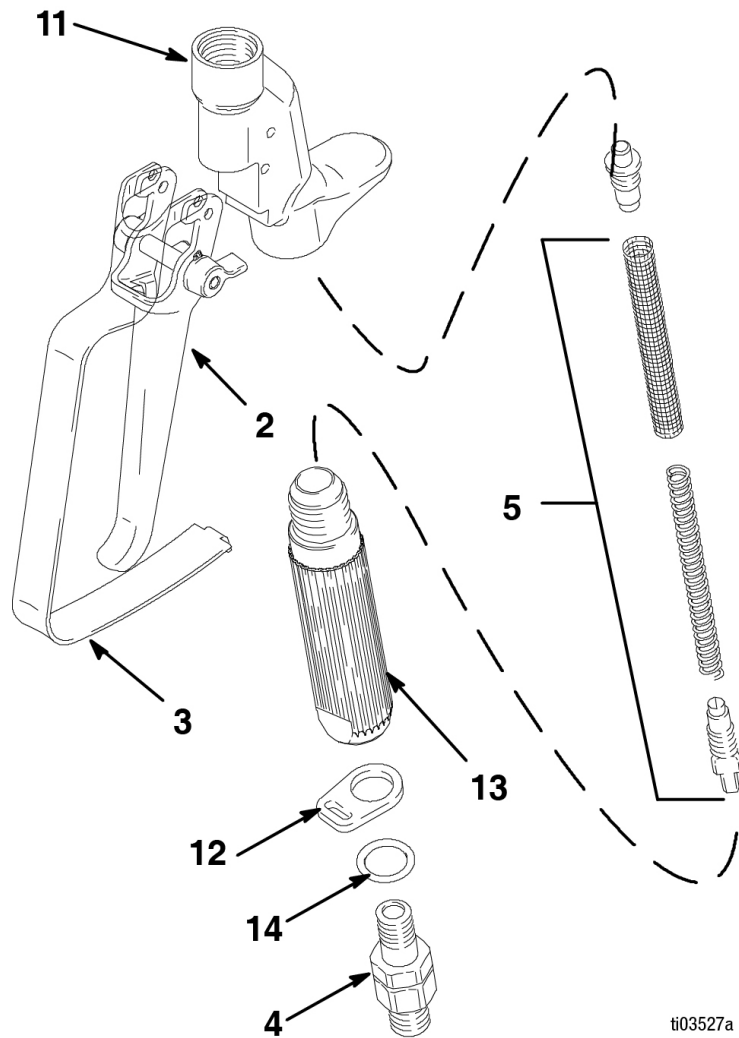
# Maintenance

## Cleaning the Filter

Perform the following procedure to clean the filter assembler (5) daily.

1. Perform the **Pressure Relief Procedure**, page 6.

2. Push up on the trigger guard (3) and swing it away from the trigger (2).
3. Unscrew the in-line valve handle (13) from the housing (11). Remove the filter and clean it in compatible solvent.
4. Apply lithium-based greased to the threads of the in-line valve handle (13) and reassemble the in-line valve.

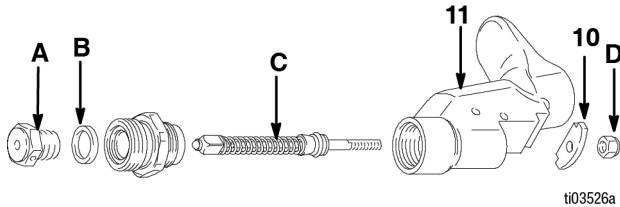


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# Repair

## Changing the Needle

**NOTE:** Needle (C), seat (A), gasket (B), and locknut (D) must be replaced together. They are included in repair Kit 218070.



### Disassembly

1. Perform the **Pressure Relief Procedure**, page 6.
2. Remove tip guard assembly.
3. Squeeze trigger while unscrewing seat (A) and gasket (B).
4. Remove locknut (D) and bracket (10).
5. Tap the rear of the in-line valve with a plastic mallet to push the needle assembly out the front.

### Reassembly

1. Guide the threaded end of the needle assembly into the front of the in-line valve.
2. Install bracket (10) and locknut (D) loosely on the threaded end of the needle (C). Squeeze the trigger to pull the needle assembly (C) into the gun body (11). Tighten locknut (D) as required to install needle (C).

3. Squeeze the trigger while installing gasket (B) and seat (A).
4. If gun handle (13) was removed, hand-tighten into fluid housing (11). It should fit easily.
5. Adjust the needle before using the gun.
6. Be sure the trigger guard and tip are installed before using the gun.

## Adjusting the Needle

1. Engage the trigger lock.
2. Hold the in-line valve with nozzle straight up.
3. Remove the trigger guard (3).
4. Hold your finger against the trigger with light pressure. Use a 5/16 in. open-ended wrench to turn locknut (D) clockwise until you feel the trigger depress slightly.
5. Turn adjusting nut 3/4 in., turn clockwise.
6. Connect the fluid hose. Install the tip guard and prime the system. Trigger the gun and release it. The fluid flow should stop immediately. Engage the trigger guard and try to trigger then gun. **No fluid should flow.** If the gun fails either test, relieve the pressure, disconnect the hose, and readjust the needle.

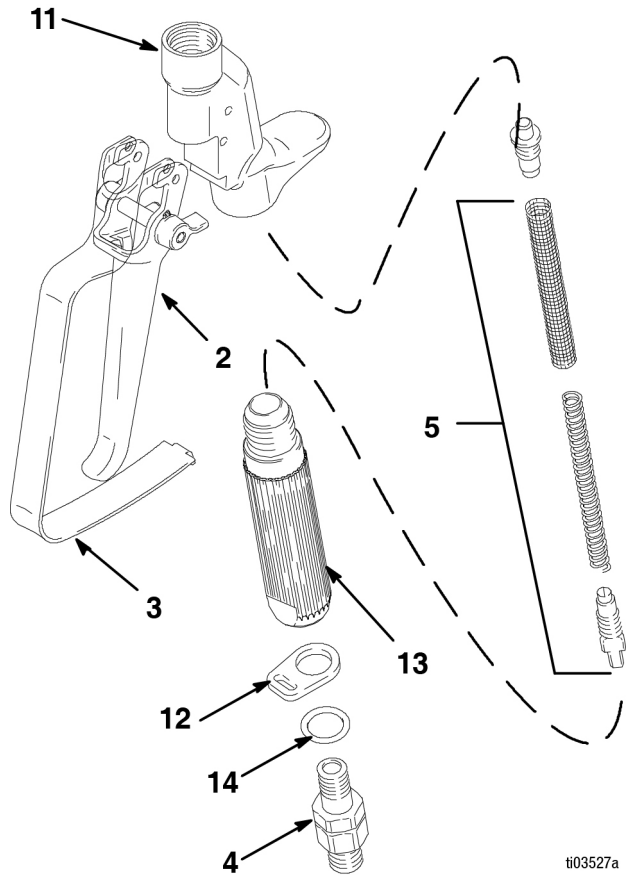
## Replacing the In-Line Valve Swivel

### Disassembly

1. Perform the **Pressure Relief Procedure**, page 6.
2. Push up on the trigger guard (3) and rotate the trigger guard away from the trigger (2).
3. Unscrew the gun handle (13) from housing (11). Remove filter (5) and clean it in a compatible solvent.
4. Remove swivel (4), guard retainer (12) and cushion o-ring (14).
5. Save guard retainer (12) and cushion o-ring (14).

### Reassembly

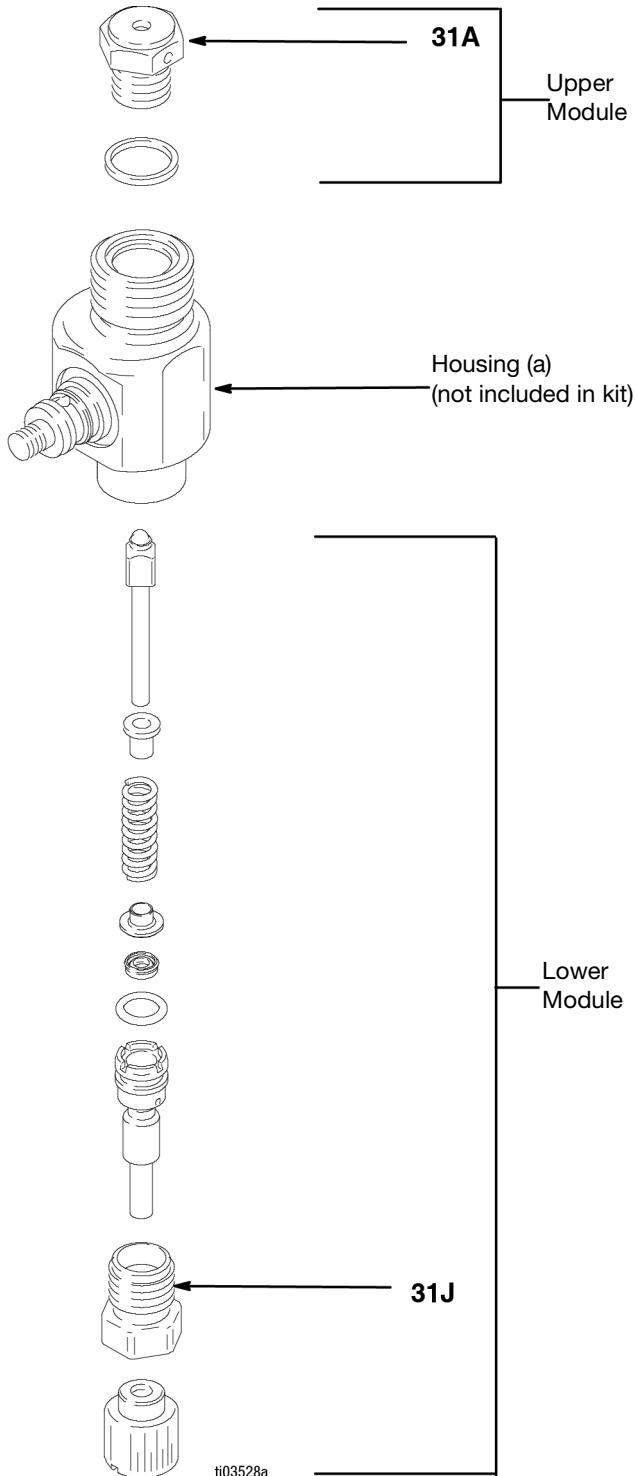
1. Clean the internal threads of handle (13).
2. Install guard retainer (12), cushion o-ring (14), and swivel (4).
3. Apply PST pipe seal (included in Swivel Kit 238817) to the external thread of swivel (4) that connect to handle (13).
4. Install swivel (4) into handle (13). Torque the swivel to 25 in-lb.
5. Engage trigger guard (3) and retainer guard (12).



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## Changing the Needle

**NOTE:** The components included in the CleanShot Valve Repair Kit 244162 are packaged as two separate modules; individual pieces cannot be ordered separately.



### Disassembly (upper module)

1. Perform the **Pressure Relief Procedure**, page 6.
2. Remove the tip guard (not shown).
3. Use a wrench to loosen the seat (31A).
4. Remove seat (31A).
5. Unscrew the module and remove it from housing (a).

### Reassembly (upper module)

1. Insert seat (3A) module into housing (a).
2. Tighten seat (31A) to 26-32 ft-lb (35-43 N·m).

### Disassembly (lower module)

1. Use a wrench to loosen nut (31J).
2. Remove nut (31J).
3. Remove the lower module from housing (a).

### Reassembly (lower module)

1. Insert the new lower module into housing (a).
2. Tighten nut (31J) to 26-32 ft-lb (35-43 N·m).

## Replace the Cleanshot Swivel

### Disassembly

1. Perform the **Pressure Relief Procedure**, page 6.
2. Remove nut (35b or 35c).
3. Slide the module off of stud (A).

**NOTE:** O-rings (35d and/or 35e) may remain in the stud. Remove and discard the old o-rings. Use the new o-rings included in Swivel Repair Kit.

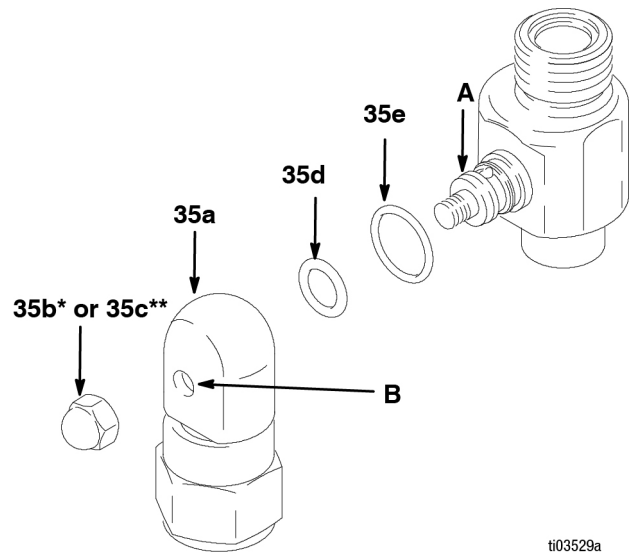
### Reassembly

1. Place the packing o-ring (35e) on the base of stud (A).
2. Place one o-ring (35d) on the base of stud (A).
3. Use a channel-lock or vise to press stud (A) into swivel (35a) until the threads on the stud are pushed through the hole (B).

**NOTE:** You will feel resistance.

4. Reinstall the nut (35b or 35c) and torque to 55-60 in-lb (6.2-6.8 N·m).

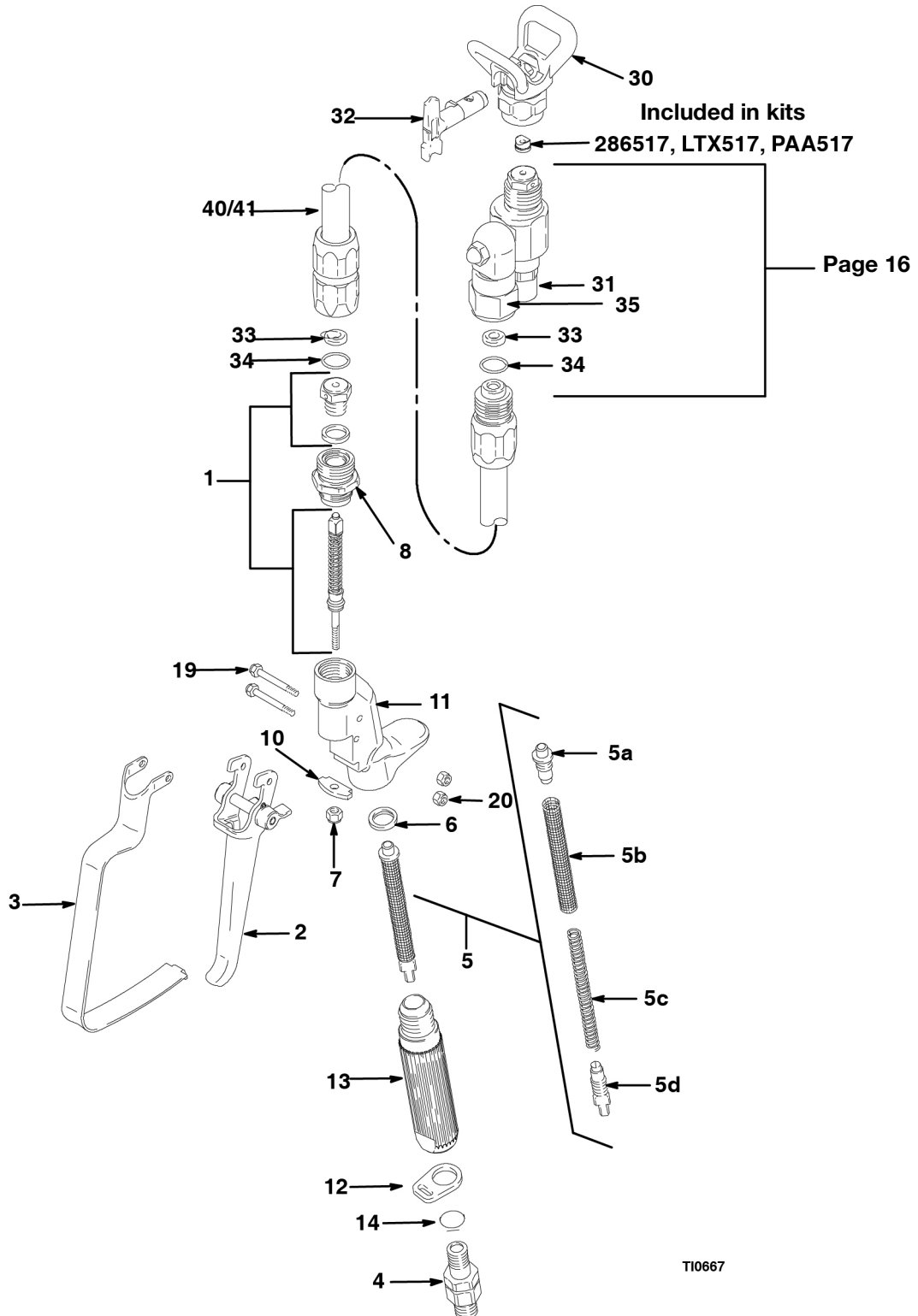
**NOTE:** Check the swivel for leaks. The o-ring can be damaged if they are not properly seated when the stud and swivel are pressed together (see step 3).



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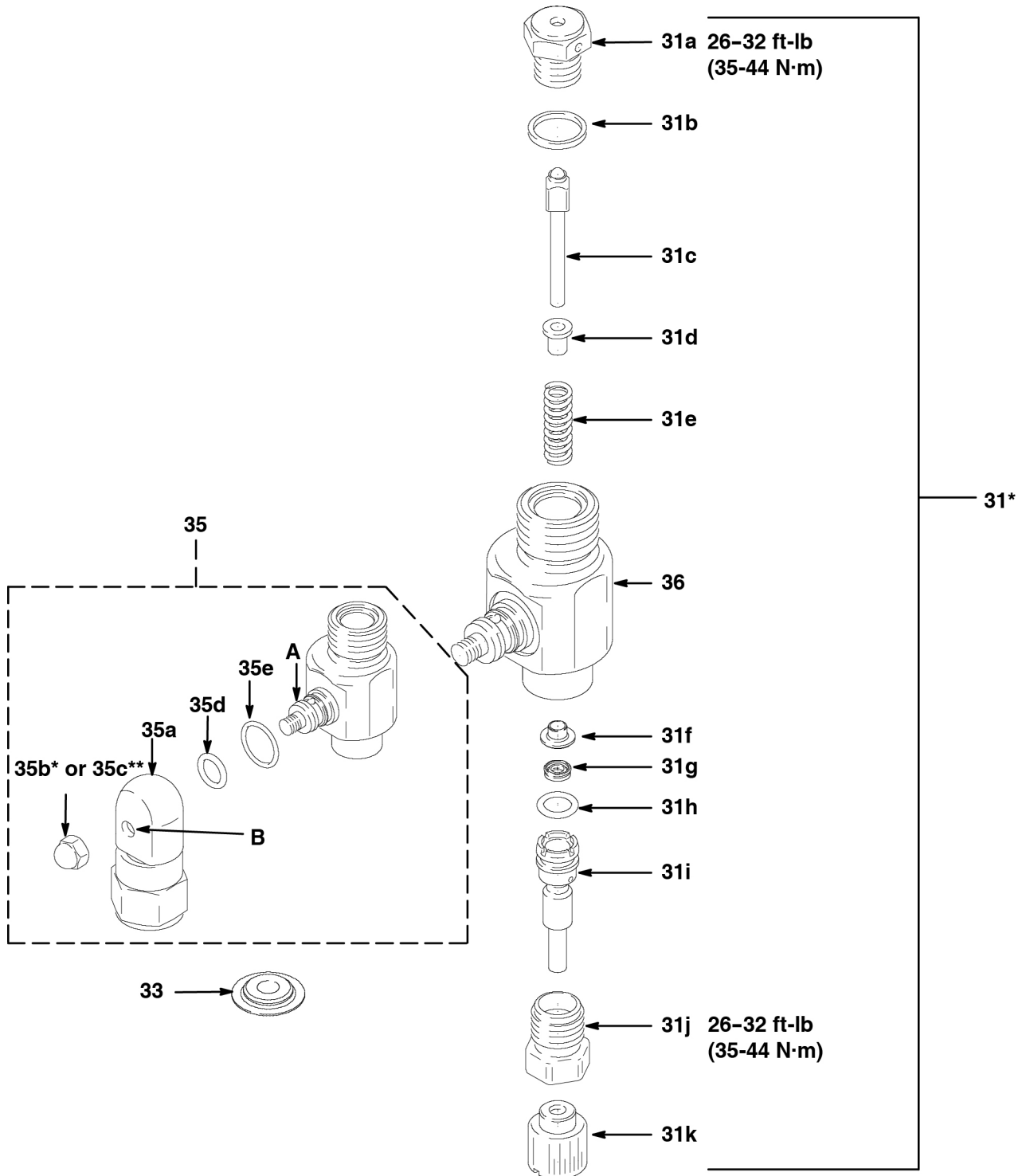
# Parts

- Model 287030 Cleanshot Shut-off Valve
- Model 244161 Contractor In-Line Valve (North America)
- Model 244364 Contractor In-Line Valve (Europe)
- Model 244365 Contractor In-Line Valve (Asia)



T10667

**Cleanshot Repair Kit 244162 (31)**  
**Swivel Repair Kit 244363 (35) †**  
**Valve Body Repair Kit 245687 (36) \*†**



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\* 36 Valve Body Kit must be purchased separately

† Series A and B



## Parts List

### Model 287030 Cleanshot Shut-off Valve

### Model 244161 Contractor In-Line Valve (North America)

### Model 244364 Contractor In-Line Valve (Europe)

### Model 244365 Contractor In-Line Valve (Asia)

Ref No.	Part No.	Description	Qty.	Ref No.	Part No.	Description	Qty.
1	218070	NEEDLE-DIFFUSER/SEAT KIT	1	31b	-----	SEAT, valve	1
2	244193	TRIGGER, gun, in-line	1	31c	-----	GASKET	1
3	196869	GUARD, trigger	1	31d	-----	RETAINER, ball	1
4	238817	KIT, swivel	1	31e	-----	DAMPENER, spring	1
5 ✓	218131	FLUID FILTER ASSEMBLY (standard 50 mesh) includes replacement parts 5a, 5b, 5c, 5d	1	31f	-----	SPRING, compression	1
5a	179722	RETAINER, spring	1	31g	-----	GUIDE, spring	1
5b	179731	ELEMENT, strainer	1	31h	-----	SEAL, u-cup	1
5c	179763	SPRING, compression	1	31i	-----	PACKING, o-ring	1
5d	179750	RETAINER, spring	1	31j	-----	RETAINER, u-cup	1
6 ✓	179733	SEAL, sleeve	1	31k	-----	CAP, end, u-cup	1
7	107110	LOCKNUT	1	32 ✓		KNOB, valve	1
8	197052	ADAPTER, RAC	1	LP517		RAC X, (Asia)	1
10	197058	BRACKET, stem	1	LP517		RAC X, latex (North America/ Asia)	1
11	197568	HOUSING, fluid, locking (North America/Asia)	1	LP517		RAC X, latex, (Europe)	1
	196828	HOUSING, fluid (Europe)	1	33	15H622	GASKET, non-metallic	2
12	113409	RETAINER, guard	1	35	244363	KIT, swivel repair, includes 35a-35d	1
13	195788	HANDLE, gun (North America/Europe)	1	35a	-----	SWIVEL, inlet assembly	1
	243393	HANDLE, gun (Asia)	1	35b	-----	NUT, cap	1
14	104938	PACKING, o-ring	1	35c	-----	PACKING, o-ring	1
19	177538	STUD, trigger	2	35d	-----	PACKING, o-ring	1
20	105334	NUT, lock, hex	2	36	245687	KIT, Valve body	1
21 ▲	222385	WARNING CARD (not shown)	1	40 •	244163	3-FOOT POLE	1
23 ▲	187348	COVER, warning	1	41 •	244164	6-FOOT POLE	1
30	246215	HandTite™ Guard	1				
	246215	See Manual 309055 for other tip sizes	1				
31	244162	Guard, RAC 5, (Asia)	1				
31a	-----	KIT, Cleanshot™ repair includes parts 31a-31k	1				

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

✓ Keep these spare parts on hand to reduce down time.

• Part number provided for reference only. Not available as a replacement part.

# Technical Specifications

<b>Pole Gun with Cleanshot Shut-off Valve and Contractor In-Line Valve</b>		
	<b>US</b>	<b>Metric</b>
Maximum fluid working pressure	3600 psi	24.8 MPa, 248 bar
Gun fluid inlet size	1/4 npsm	
Gun fluid outlet size	7/8-14 unf	
Cleanshot™ fluid orifice size	0.090 in. dia.	3.175 mm. dia.
Inline valve fluid valve orifice size	0.125 in. dia.	2.286 mm. dia.
Wetted parts	UHMWPE aluminum, tungsten carbide, stainless steel, PTFE, brass	
Maximum material temperature	120° F	50° C
<b>Weight</b>		
Model 287023, 287026, 287028, 244368	2.76 lb	1.03 kg
Model 287024, 287027, 287029, 244369	3.5 lb	1.3 kg
<b>Sound data*</b>		
Sound pressure level	78 dB(A)	
Sound power level	87 dB(A)	
* Measured while spraying waterbase paint - specific gravity 1.36 through a 517 tip at 3,000 psi (21 MPa, 207 bar) per ISO 3744. Actual sound levels may vary with length of extension used.		

## End of Product Life

At the end of a product’s useful life, recycle it in a responsible manner.

## California Proposition 65

CALIFORNIA RESIDENTS

 **WARNING:** Cancer and reproductive harm – [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

# 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.

**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.

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.

## **FOR GRACO CANADA CUSTOMERS**

The Parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présente document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés, à la suite de ou en rapport, directement ou indirectement, avec les procédures concernées.

## Graco Information

For the latest information about Graco products, visit [www.graco.com](http://www.graco.com).

For patent information, see [www.graco.com/patents](http://www.graco.com/patents).

**TO PLACE AN ORDER**, contact your Graco distributor or call to identify the nearest distributor.

**Toll Free Phone Number:** 1-800-328-0211

*All written and visual data contained in this document reflects the latest product information available at the time of publication.  
Graco reserves the right to make changes at any time without notice.*

Original instructions. This manual contains English. MM 309237

**Graco Headquarters:** Minneapolis

**International Offices:** Belgium, China, Japan, Korea

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