INSTRUCTIONS-PARTS LIST

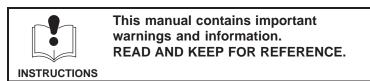


First choice when

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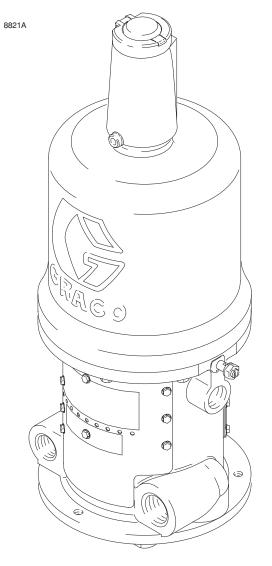
Rev. A



President® Air Motor

See your pump instruction manual for Maximum Working Pressure.

Model 241265, Series A For stanchion tube mounting



Model 241265 Shown

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Symbols

Warning Symbol

A WARNING

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

Caution Symbol

A CAUTION

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

▲ WARNING



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.
- 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 pull on hoses to move equipment.
- Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose Graco hoses to temperatures above 66°C (150°F) or below -40°C (-40°F).
- Wear hearing protection when operating this equipment.
- Do not move or lift pressurized equipment.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.
- Never exceed 180 psi (1.2 MPa, 12 bar) air pressure to the motor, and never exceed the stated
 maximum working pressure of the pump or the lowest rated component in your system. Refer to
 your separate pump instruction manual.
- Be sure that all spray/dispensing equipment and accessories are rated to withstand the maximum air and fluid working pressures of this system. Do not exceed the maximum working pressure of any component or accessory used in the system.

▲ WARNING



INJECTION HAZARD

Spray from the gun, leaks or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Fluid splashed in the eyes or on the skin can also cause serious injury.

- Fluid injected into the skin is a serious injury. The injury may look like just a cut, but it is a serious injury. Get immediate medical attention.
- Do not point the dispensing valve at anyone or any part of the body.
- Do not put your hand or fingers over the end of the dispensing valve.
- Do not stop or deflect leaks with your hand, body, glove or rag.
- Use only extensions and no-drip tips that are designed for use with your dispensing valve.
- Tighten all fluid connections before operating the equipment.
- Check the hoses, tubes, and couplings daily. Replace worn or damaged parts immediately. Do not repair high pressure couplings; you must replace the entire hose.



MOVING PARTS HAZARD

Moving parts can pinch or amputate your fingers.

- Keep clear of all moving parts when starting or operating the pump.
- Before checking or servicing the equipment, follow the **Pressure Relief Procedure** on page 6 to prevent the equipment from starting unexpectedly.

▲ WARNING



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. Refer to **Grounding** on page 5.
- 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 spraying or while operating 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.

- Be sure that all fluids and solvents used are chemically compatible with the wetted parts shown in the **Technical Data** section of your pump manual. Always read the manufacturer's literature before using fluid or solvent in your pump.
- 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.

United States Government safety standards have been adopted under the Occupational Safety and Health Act. You should consult these standards – particularly the General Standards, Part 1910, and the Construction Standards, Part 1926.

Installation

General Information

NOTE: Reference numbers and letters in parentheses in the text refer to the callouts in the figures and the parts drawing.

NOTE: Always use Genuine Graco Parts and Accessories, available from your Graco distributor.

Grounding

M WARNING



FIRE AND EXPLOSION HAZARD
Before operating the pump, ground the system as explained below. Also read the section FIRE OR EXPLOSION HAZARD on page 4.

- Pump: Use a ground wire and clamp as shown in Fig. 1. Loosen the grounding lug locknut (A) and washer (B). Insert one end of a 12 ga (1.5 mm²) minimum ground wire (C) into the slot in lug (D) and tighten the locknut securely. Connect the other end of the wire to a true earth ground. Order part number 103538 Grounding Clamp and 208950 Grounding Wire.
- Air, and fluid hoses: Use only electrically conductive hoses.
- Air compressor: Follow manufacturer's recommendations.

- Spray gun and dispensing valve: Ground through connection to a properly grounded fluid hose and pump.
- Object being sprayed: Follow your local code.
- Solvent pails used when flushing: Follow your local code. Use only metal pails, which are conductive, placed on a grounded surface. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts the grounding continuity.
- To maintain grounding continuity when flushing or relieving pressure, hold a metal part of the spray gun firmly to the side of a grounded metal pail, then trigger the gun.

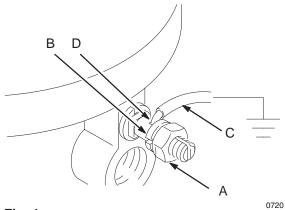


Fig. 1

Installation

Pressure Relief Procedure

A WARNING



INJECTION HAZARD

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
- Install or clean the spray tips
- Engage the spray gun/dispensing valve safety latch.
- 2. Shut off the air to the motor.
- 3. Close the bleed-type master air valve (required in your system).
- 4. Disengage the gun/valve safety latch.
- Hold a metal part of the gun/valve firmly to the side of a grounded metal pail, and trigger the gun/valve to relieve pressure.
- 6. Engage the gun/valve safety latch.
- Open the pump drain valve (required in your system), having a container ready to catch the drainage.
- 8. Leave the drain valve open until you are ready to spray/dispense again.

If you suspect that the spray tip/nozzle or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, very slowly loosen the tip guard retaining nut or hose end coupling and relieve pressure gradually, then loosen completely, then clear the tip/nozzle or hose.

A WARNING

A bleed-type master air valve is required in your system to reduce the risk of serious bodily injury from moving parts if you are adjusting or repairing the air motor.

The bleed-type master air valve relieves air trapped between this valve and the motor after the air regulator is shut off. Trapped air can cause the motor and pump to cycle unexpectedly. Install the valve between the pump air inlet and the air regulator within easy reach of the pump.

WARNING

Moving parts can pinch or amputate your fingers or other body parts. When the pump is operating, the priming piston (located at the pump intake) and the air motor piston (located behind the air motor plates) move. **Never** Operate the pump with the air motor plates removed, and keep your fingers and hands away from the priming piston. See **Moving Parts Hazard** on page 3.

Operation

NOTE: See your separate pump manual for detailed operation instructions.

Restarting a Stalled Air Motor



Never exceed 180 psi (1.2 MPa, 12 bar) air supply pressure to the air motor. Exceeding this pressure may cause the air motor to stall with the air transfer valves stuck at mid position, making the air motor inoperative.

To reseat the air transfer valves and restart a stalled air motor, relieve the air supply pressure to the motor by closing the bleed-type master air valve. If the air transfer valves fail to reseat, screw the stroke adjuster (F) out of the cylinder (G), pull up on the trip rod (H) and screw the cap nut back into the cylinder. See Fig. 2. Be sure the air supply pressure is less than 180 psi (1.2 MPa, 12 bar) before opening the bleed-type master air valve.

Service

Servicing the Air Motor

Before you Start

- Be sure you have all necessary parts on hand. Air
 Motor Repair Kit 207385 includes repair parts for
 the motor. Pump Repair Kit 239320 includes repair
 parts for the pump. Use all the parts in the kits for
 the best results. Parts included in the kits are
 marked with asterisks (*) or a dagger (†) in the text
 and drawings. See the parts list and drawing for
 your pump (pages 12 and 13) for further
 information.
- Two accessory tools should be used. Padded pliers, 207579 is used to grip the trip rod without damaging its surface. Gauge, 171818, is used to ensure the proper clearance between the poppets and seat of the transfer valve. See Accessories on page 14 for ordering.

Disassembly

- 1. Flush the pump. Follow the **Pressure Relief Procedure Warning**, at left, before proceeding.
- 2. Disconnect the air hose from the motor. If necessary, disconnect the motor from the pump. Clamp the air motor base in a vise.
- Manually push up on the piston rod to move the piston assembly to the top of its stroke. Unscrew the stroke adjuster (F) from the cylinder (G). Pull up on the cap nut. Grip the trip rod (H) with padded pliers 207579 and screw the stroke adjuster off the trip rod. See Fig. 2.

A CAUTION

Do not damage the plated surface of the trip rod. Damaging the surface of the trip rod can result in erratic air motor operation. Use the special padded pliers, 207579, to grasp the rod.

4. Remove the eight screws (Z) holding the cylinder (G) to the base (J). Carefully pull the cylinder *straight up* off the piston. See Fig. 2.

A CAUTION

To avoid damaging the cylinder wall, ALWAYS lift the cylinder **straight up** off of the piston. **Never** tilt the cylinder as it is being removed.

▲ WARNING

Always keep fingers clear of the toggle assemblies (E), to avoid pinching or amputating them. See Fig. 3.

5. Use a screwdriver to push down on the trip rod yoke (K) and snap the toggle assemblies (E) down. See Fig. 3. Remove the lockwires (L) from the adjusting nuts (M and Q) of the transfer valves (N). Screw the top nuts (M) off. Screw the valve stems (O) out of the grommets (P) and lower adjusting nuts (Q). Take the valve poppets (R) off the stems and squeeze them firmly to check for cracks.

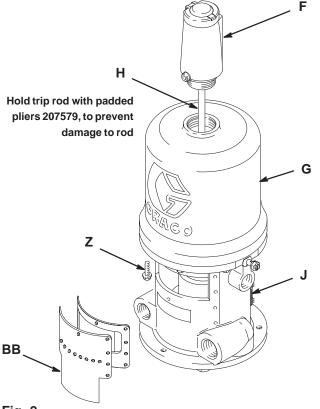


Fig. 2

Service

- 6. Grip the toggle rockers (S) with a pliers. Compress the springs (T) and swing the toggle assembly (E) up and away from the piston lugs (U), and remove the parts. Check that the valve actuator (V) is supported by the spring clips (W), but slides easily into them. See Fig. 3.
- 7. Remove the trip rod yoke (K), valve actuator (V) and trip rod (H). Check the exhaust valve poppets (X) for cracks.
- **NOTE:** To remove the exhaust valve poppets (X), stretch them out and cut with a sharp knife.
- 8. Pull the piston (Y) up out of the base (J) and inspect the piston o-ring (AA) and the o-ring in the base casting.

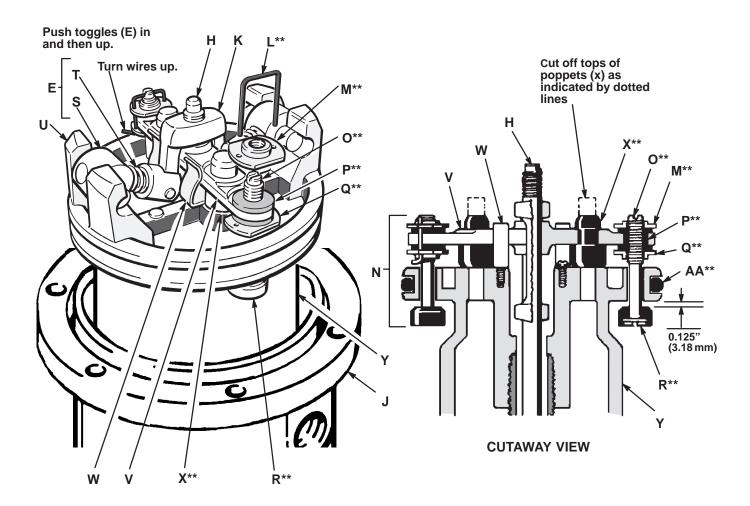


Fig. 3

Service

Reassembly

- Clean all the parts carefully in a compatible solvent and inspect for wear or damage. Use all the repair kit parts during reassembly and replace other parts as necessary.
- Check the polished surfaces of the piston, piston rod and cylinder wall for scratches or wear. A scored rod will cause premature packing wear and leaking.
- 3. Lubricate all parts with a light, waterproof grease.
- 4. Be sure the o-rings are in place. Slide the piston rod down through the throat bearing and lower the piston (Y) into the air motor base (J).
- 5. Pull the exhaust valve poppets (X**) into the valve actuator (V) and clip off the top part shown with dotted lines. See Fig. 3.
- 6. Install the transfer valve poppets (R**) onto the valve stems (O**), then reassemble the valve stems (O**), bottom adjusting nuts (Q**), grommets (P**), and top adjusting nuts (M**) on the piston (Y). Assemble the trip rod (H), valve actuator (V), trip rod yoke (K) and toggle assemblies (E) on the piston. See Fig. 3.

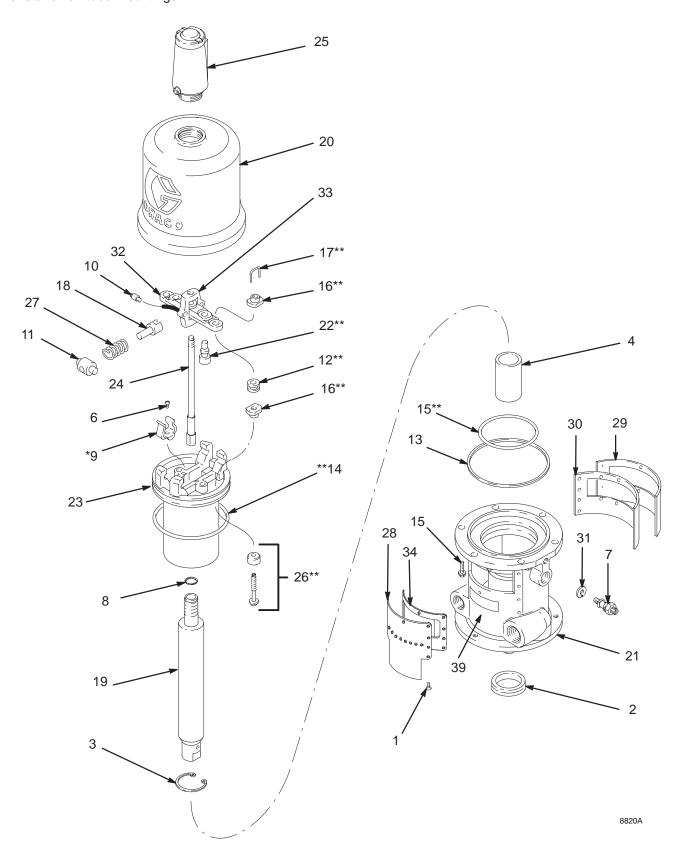
- 7. Before installing the lockwires (L**) in the adjusting nuts (M** and Q**), use the special gauge 171818 to adjust the transfer valve (N) so there is 0.145 in. (3.68 mm) clearance between the poppets (R**) and the piston (Y) when the toggle assemblies are in the *down* position. See Fig. 3.
- 8. Snap the toggle assemblies (E) to the *up* position. Reinstall the cylinder (G) and stroke adjuster (F). Reassemble the air motor to the displacement pump.
- Before remounting the pump, connect an air hose and run the pump slowly, at about 40 psi (0.28 MPa, 2.8 bar) to ensure that it operates smoothly.
- 10. Reconnect the ground wire before regular operation of the pump.

Notes



Parts

Model 241265, Series A for stanchion tube mountings



Parts

Model 241265, Series A

for stanchion tube mountings

Ref No.	Part No.	Description	Qty
1	100078	SCREW, hex head; 8-32 x 3/8".	20
2	101524*	SEAL, wiper; leather	1
3	101525	RING, retainer	1
4	101526	BEARING; bronze	1
5	101578	SCREW, hex head Nylock;	
		8–32 x 3/8" .	8
6	102975	SCREW, rd hd mach; 6–32 x 1/4"	2
7	104029	LUG, grounding	1
8	150647	GASKET; copper	1
9	158361*	CLIP, spring	2
10	158362	PIN, toggle	2 2
11	158364	ROCKER, toggle	2
12	158367**	GROMMET; rubber	2
13	158377	SEAL, flat ring; nitrile rubber	1
14	158378**	SEAL, o-ring; nitrile rubber	1
15	158379**	SEAL, o-ring; nitrile rubber	1
16	160261**	NUT, adjusting	4
17	160618**	LOCKWIRE, transfer valve	2
18	160623	ARM, toggle	2
19	162628	ROD, piston	1
20	162629	CYLINDER, motor, air	1
21	162663	BASE, motor, air	1
22	170709**	POPPET, valve; urethane	2
23	170711	BARE PISTON	1
24	207150	TRIP ROD	1
25	210515	ADJUSTER, stroke	1
26	236079**	POPPET, valve	2
	160896	. STEM, valve	2
	170708	. POPPET, valve; urethane	2

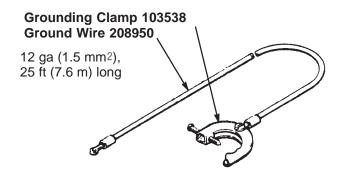
Ref No.	Part No.	Description	Qty
27	167585	SPRING, helical compression	2
28	177841	PLATE, warning	1
29	177844	PLATE, identification	1
30	178270	PLATE, muffler	1
31	104582	WASHER, tab	1
32	158359	ACTUATOR, valve	1
33	158360	YOKE, rod, trip	1
34	178269	PLATE, muffler	1
39	180233	LABEL, warning	2

- Recommended spare parts to keep on hand.
- ** Included in Repair Kit 207385. Must be purchased separately.
- ▲ If users of this equipment do not read English, you may order one of the following labels to apply to your air motor. Apply the label over the matching label on the air motor plate for good visibility. Do not cover the air exhaust holes. Order the labels free of charge directly from Graco. Toll free: 1–800–367–4023.

German	290464
French	290463
Spanish	290465

Accessories

Must be purchased separately.



Air Line Filter

250 psi (1.74 MPa, 17.4 bar) MAXIMUM WORKING PRESSURE

106148 3/8" npt inlet and outlet 106149 1/2" npt inlet and outlet

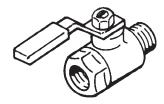


Bleed-Type Master Air Valve (Required)

300 psi (2.1 MPa, 21 bar) MAXIMUM WORKING PRESSURE

Relieves air trapped in the air line between the pump air inlet and this valve when closed.

107141 3/4 npt(m) inlet x 3/4 npt(f) outlet 107142 1/2 npt(m) inlet x 1/2 npt(f) outlet



Padded Pliers 207579

Use to grip trip rod during air motor servicing, to prevent damage to rod.

Valve Stem Gauge 171818

Use to check transfer valve clearance during air motor servicing.

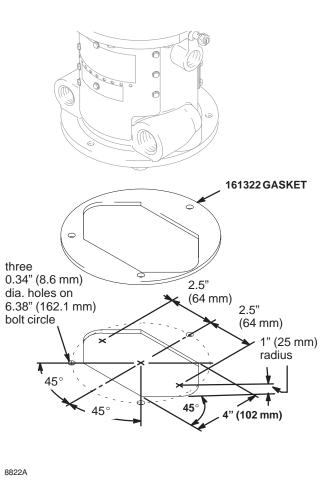
Muffler Kit 214873

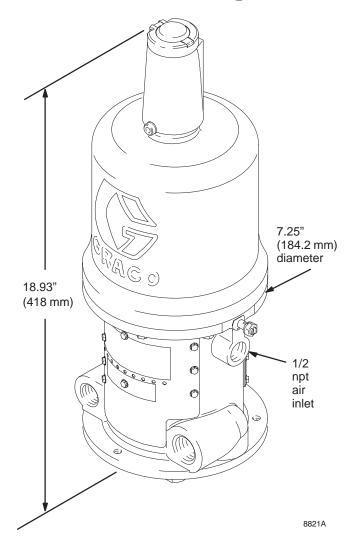
Replaces existing motor muffler to reduce noise and oil mist emissions. Includes separate manual 307–361.

Mounting Hole Layouts

Dimensional Drawing

Stanchion-Tube Pumps





Technical Data

Maximum inbound air pressure
Effective piston area
Effective piston diameter
Stroke
Air valves
Exhaust: urethane
Valve mechanism balanced, detented
Seal Nitrile rubber
Weight approx. 19 lb (8.6 kg)
* Sound level at 180 psi (1.2 MPa, 12 bar), 25 cycles per minute
* Sound power level at 180 psi (1.2 MPa, 12 bar), 25 cycles per minute

^{*} Tested in accordance with ISO 3744.

Graco Standard Warranty

Graco warrants all equipment 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.

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

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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

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