10:1 President Pump Hydra-Clean[®] Units

For mounting on open 55 gallon supply drum. May be wall-mounted with accessory bracket. For professional use only.

Model 6880119, Series C (PTFE Packings) Model 206515, Series C (Neoprene Packings)

7 MPa, (69 bar, 1000 psi) Maximum Working Pressure

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

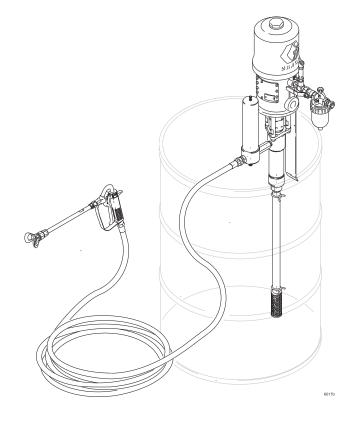


Important Safety Instructions

Read all warnings and instructions in this manual before using the equipment. Save these instructions.

- Stainless steel pump and spray valve handle powerful clean solutions at high pressure.
- Divorced design pump—keeps cleaning solution from fouling air motor.
- Accumulator reduces line pulses—air charged at the factory.
- Air line lubricator for automatic lubrication of air motor.
- Suction tube has intake filter.

Solution volume and working pressure can be adjusted using a different tip orifice size and an air regulator. Fan pattern can be changed to concentrating jet stream using blasting tip.





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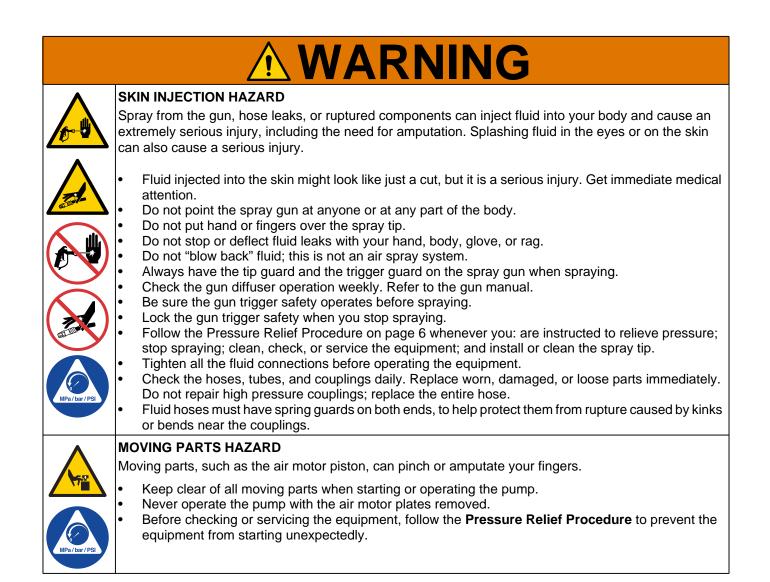
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Warnings

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					
Δ	EQUIPMENT MISUSE HAZARD					
	Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.					
	Use this pump only for pumping water and waterdiluted cleaning solutions in a pressure washing system. Never use the pump for paint or any other coatings. Any misapplication of the pump may cause dangerous operating conditions which can result in serious injury and substantial property damage.					
	 This equipment is for professional use only. Read all instruction manuals, tags, and labels before operating the equipment. Use the equipment only for its intended purpose. If you are not sure, call your Graco distributor. Do not alter or modify this equipment. Use only Graco parts and accessories. Check equipment daily. Repair or replace worn or damaged parts immediately. Do not exceed the maximum working pressure stated on the equipment or in the Technical Data for your equipment. Do not exceed the maximum working pressure of the lowest rated component in your system. Use fluids and solvents which are compatible with the equipment wetted parts. Refer to the Technical Data section of all equipment manuals. Read the fluid and solvent manufacturer's warnings. Handle hoses carefully. Do not 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. 					



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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. See Grounding. 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 OR FUMES HAZARD					
Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, or swallowed.					
 Know the specific hazards of the fluid you are using. Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines. Always wear protective eyewear, gloves, clothing and respirator as recommended by the fluid and solvent manufacturer. 					

Setup

Grounding



Before operating the pump, ground the system as explained below. Also read the section FIREAND EXPLOSION HAZARD on page 5.

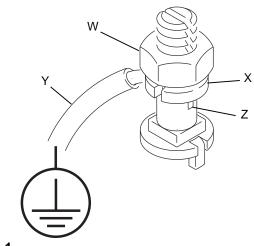
Although water generally provides a natural electrical ground, the following equipment must be grounded if the cleaning chemical are volatile.

- 1. When cleaning in enclosed areas, such as storage tanks, locate the pump and air compressor outside the area and well away from it. Provide adequate ventilation. If the area you are cleaning has stored flammable materials. take appropriate precautions to avoid static sparking. Consul your local codes.
- Pump: use a ground wire and clamp. See FIG. 1 Loosen the grounding lug locknut (W) and washer (X). Insert one end of a 1.5 mm² (12 ga) minimum ground wire (Y) into the slot in lug (Z) and tighten the locknut securely. Connect the other end of the wire to a true earth ground. Order Part No. 237569 Ground Wire and Clamp.

- 3. **Air and fluid hoses:** use only electrically conductive hoses.
- 4. **Air compressor:** follow manufacturer's recommendations.
- 5. **Spray gun:** ground through connection to a properly grounded fluid hose and pump.
- 6. Fluid supply container: follow your local code.
- 7. Object being sprayed: follow your local code.
- 8. 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.
- 9. 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.

General Information

The typical setup shown in FIG. 2 is only a guide to selecting and installing required and optional components. For assistance in designing a system to suit your needs, contact your Graco distributor. Refer to FIG. 2 for callouts in parentheses.





Connect Hoses and Mount Pump

- Using Loctite Pipe Sealant, screw the hose stud (10) of the suction hose into the pump's intake housing. See FIG. 2. Remove one of the screws from the pump base opposite the outlet, and assemble the hanging bracket (19) to the pump with the provided screw (9)—use the lockwasher that was on the replaced screw.
- Using Loctite[®] Pipe Sealant, screw the accumulator (7) inlet adapter into the pump outlet. Connect the fluid hose to the accumulator, the nozzle to the spray valve, and the air line lubricator (3) to the pump air inlet. Hang the pump on your cleaning solution drum.

NOTE: The filter on the suction hose should be about 1/2 in. (12.7 mm) off the bottom of the drum. If the hose is too long, cut it off as necessary.

 Close the air ball valve (24), then connect your 1/2 ID (min) air supply hose to the 1/2 nptm(f) inlet union (15)—do not use thread sealer. Install an accessory air filter and water separator to remove excessive moisture that could cause air motor icing. Pour high quality SAE 10 into the lubricator until oil reaches the level mark on the sight glass.

NOTICE

Oils containing phosphate ester or chlorinated hydrocarbons are not compatible with the plastic bowl of the lubricator—be sure that oil used to lubricate the compressor is free of these additives.

Operation

To avoid serious injury, including fluid injection and splashing in the eyes or on the skin, never point the gun at yourself or anyone else.

Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.



Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you:

- are instructed to relieve the pressure,
- stop spraying,
- check or service any of the system equipment,
- or install or clean the spray nozzles.
- 1. Lock the Hydra-Clean[®] gun trigger safety.
- 2. Close the pump air regulator.
- 3. Close the red handled bleed-type master air valve (required in your system)
- 4. Unlock the gun trigger safety and trigger the gun to relieve pressure.
- 5. Lock the gun trigger safety.
- 6. Open the pump drain valve, having a container ready to catch the drainage.
- 7. Leave the drain valve open until you are ready to spray again.

If you suspect that the dispensing valve, extension, or grease fitting coupler is clogged, or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen the coupler or hose end coupling and relieve pressure gradually, then loosen completely, now clear the clog.

Before Using

Prepare cleaning solution as instructed, observing all safety precautions. Pre-mix powered cleaners in a separate bucket of hot water before adding to water in the supply drum.

Take care not to get spray containing cleaning chemicals into your eyes, ears, or nose. If any spray does get on your skin or in your eyes, flush immediately and thoroughly with water. Seek immediate medical attention.

See FIG. 2. Open the main air supply valve, hold the spray valve open and slowly open the air petcock until the pump is running slowly. After solution is coming from the spray nozzle, open the ball valve (24) all the way and adjust the air line lubricator (3) to deliver about one drop per minute. Refer to the separate lubricator instruction manual.

Release the spray valve trigger and let the pump run. The pump will charge the accumulator with liquid pressure, then stall.

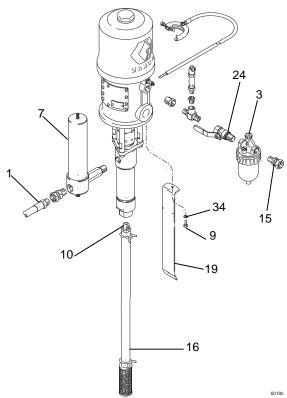
NOTE: Protect surfaces that might be damaged by the cleaning solution and rinse before the solution dries on both surfaces. You can clean stubborn dirt off better with a stronger, heated solution.

Useful Hints



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

Hold the spray nozzle about 2 feet (0.6 m) from the surface and completely mist-wet the object you are cleaning. Let it soak briefly, then use the spray to "chisel" the dirt off—keep the nozzle about 6 in. (152.4 mm) from, and at an angle to the surface. If some dirt remains, wet the surface again. Let the object soak a little longer, then hold the nozzle as close as possible and spray to blast the dirt off.



Shutdown and Care of Unit

NOTICE

Do not allow the pump to run dry. It will quickly accelerate to a high speed, causing damage. If your pump is running too fast, stop it immediately and check the fluid supply. If the container is empty and air has been pumped into the lines, refill the container and prime the pump and the lines, or flush and leave it filled with a compatible solvent. Eliminate all air from the fluid system.

WARNING

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

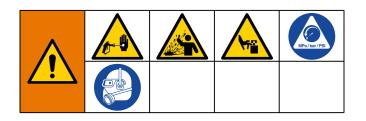
When shutting down for the day or weekend, shut off the main air supply and relieve the pressure. Rinse all solution off the equipment with clear, cold water, Shut off the water supply valve and relieve the water pressure.

Check the air line lubricator (3) often and keep it filled with oil. Also check the pump packing nut regularly and keep it just tight enough to stop leakage, but no tighter. Use a 1/4 in. diameter rod to tighten.

Fig. 2

After all the dirt is cleaned off, rinse all the solution off with clear, cold water. When you are through cleaning, close the air petcock and follow the **Pressure Relief Procedure**, page 8.

Troubleshooting



- 1. Follow **Pressure Relief Procedure**, page 8, before checking or repairing the equipment
- 2. Check all possible problems and causes before disassembling the equipment.

Problem	Cause	Solution	
Excessive surge at spray nozzle	Obstructed spray tip, valve, or hose	Clean, clear	
	Cleaning solution supply empty	Refill	
	Accumulator not working	Recharge—see Service on page 11 and manual 306933	
	Clogged intake filter, kinked or collapsed suction hose	Clean, unkink	
Fluid leaking from valve	Loose packing nut or worn packings	See manual 307010	
Valve will not stop dispensing	Valve not adjusted properly	See manual 307010	
	Dirty or worn valve stem or seat	Clean, clear, or replace—See manual 307010	
Valve will not stop the pump	Cleaning solution supply empty	Refill	
	Clogged intake filter, kinked or collapsed suction hose	Clean, unkink	
	Dirty or worn valve stem or seat	Clean clear, or replace—See manual 307010	
	Dirty or worn fluid piston or packings	Service—See manual 308117	
Pump operating, but spray pressure low on up stroke.	Dirty or worn fluid piston or packings	Service—See manual 308117	
Pump operating, but spray pressure low on down stroke	Dirty or worn fluid intake valve	Clean, clear, or replace—See manual 308117	
Pump operating, but spray pressure low on both strokes	Clogged intake filter, kinked or collapsed suction hose	Clean, unkink	
	Dirty or worn fluid piston or packings	Service—See manual 308117	
	Dirty or worn fluid intake valve	Clean, clear, or replace—See manual 308117	
	Loose packing nut or worn packings	Tighten, replace—See manual 308117	
Fluid will not come from pump	Restricted air line	Check for closed valve; use larger supply hose	
(hose removed)	Pump throat packing nut too tight	Loosen	
	Pump air motor not working	Service—See manual 306982	
System will not spray	Restricted air line	Check for closed valve; use larger supply hose	
	Pump air motor not working	Service—See manual 306982	

Service

General

See FIG. 2. Check the air line lubricator often and keep it filled with oil. Also check the pump packing nut regularly to keep it just tight enough to stop leakage, but no tighter. Use a 1/4 in. (6.3 mm) diameter rod to tighten.

Proper packing nut take-up will stop leakage. However, all the packings should be replaced after 1000 hours of operation or delivery of 120,000 gallons of solution at 2 gpm. Use Repair Kit 206923.

Accumulator Repair

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

NOTE: Before disassembling the accumulator (7), check the air valve for leakage. Remove the air valve cap and recharge the air chamber to 0.58–1.36 MPa (5.78–13.6 bar, 85–200 psi). Wet the valve stem with saliva and watch for bubbling, indicating leakage. If leakage it detected, replace the valve core—release the air pressure first by depressing the valve core plunger pin.

- Shut off the air supply to the pump and relieve the pressure. Release air pressure in the accumulator by depressing the valve core plunger pin. Disconnect the spray hose and remove the accumulator from the pump.
- 2. Screw the inlet adapter out of the housing and remove the o-ring, poppet, and spring. Screw the housing off of the cylinder. Take the piston out and remove the bearings and seal. Clean all parts and inspect for wear and damage, replacing as

necessary. Check the piston and cylinder wall for pitting or scoring. Check the valve seat in the inlet adapter for wear or damage.

3. Lubricate the piston seal, and reassemble the accumulator. Remount the accumulator on the pump and reconnect the spray hose. Charge the accumulator to 0.58–1.36 MPa (5.78–13.6 bar, 85–200 psi). Start the pump and check for air or liquid leaks.

Accessories

Stainless Steel Spray Tips

Tip No.	Color	Orifice Size	Spray Angle
805584	Yellow	0.071	15°
805538	White	0.043	40°
805549	Green	0.050	25°

Parts

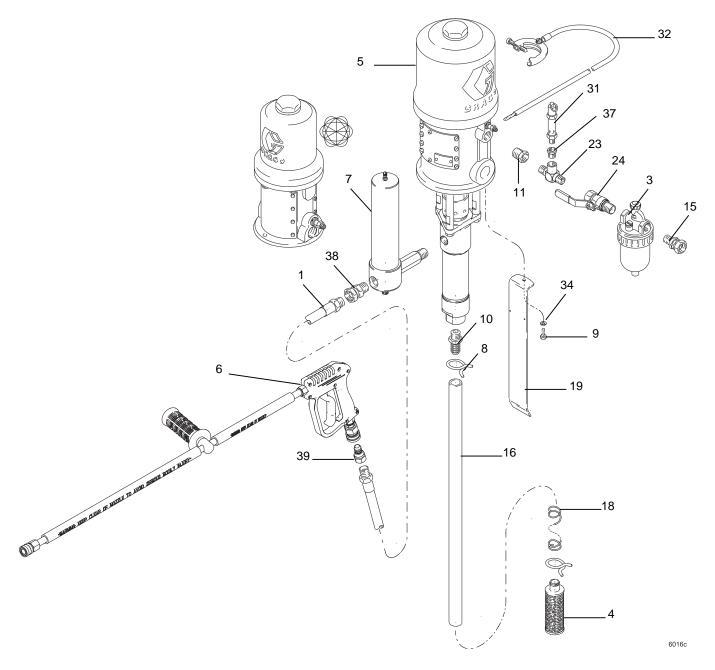
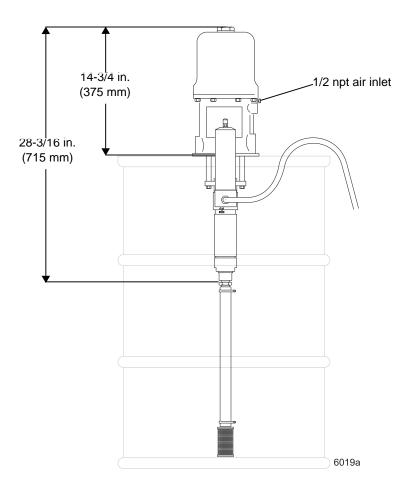


Fig. 3: Model 206515 President Hydra-Clean

Parts List for Models 206515 and 6880119 President Hydra-Clean

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	18A826	HOSE, coupled, high press,	1	10	102550	STUD, barbed hose; 3/8 npt(m)	1
3	214847	40 ft (12 m) AIR LINE LUBRICATOR	1	11	158256	UNION, swivel; 1/2 nptf x 3/8 npsm	1
4	206300	SUCTION HOSE FILTER	1	15	162505	UNION, str swivel; 3/8 npt(m) x 1.2 npt(f) swivel	1
5	224346	10:1 PRESIDENT PUMP, for pressure washing UHMWPE/Neoprene packed	1	16	162802	HOSE, plastic; 3/4 in. ID; 24 in. (0.6 m) long	1
		Stainless Steel Hydra-Clean Pumps (See manual 308117 for		18	164085	SPRING, reinforcing	1
		parts)		19	165280	BRACKET, pump mounting	1
	224342	10:1 PRESIDENT PUMP, for severe duty UHMWPE/PTFE	1	23	108066	TEE; 1.4 npt(f)	1
		or PTFE packed Stainless Steel Pumps (See manual 308116 for		24	113333	BLEED-TYPE AIR VALVE, red handled	1
	247879		1	31	113498	VALVE, air relief	1
6 247879		SPRAY GUN (See manual 307010 for parts)	1	32	237569	GROUND WIRE	1
7	207278	AIR CHARGED	2	34	102024	WASHER, lock	1
		ACCUMULATOR (See manual 306933 for parts)		37	100176	BUSHING, hex	1
8	102123	CLAMP, hose	1	38	235208	UNION, swivel	1
9	102235	CAPSCREW, hex hd; 1/4-20 x 1/2 in.	1	39	15T278	SWIVEL, adapter, 3/8 in18 npt, MA 3/8 QR, SST	1

Dimensions



Technical Specifications

10:1 President Pump Hydra-Clean [®] Units					
	US	Metric			
Air pressure operating range	20 to 120 psi	1.5 to 8.5 bar (150 to 850 kPa)			
Pump ratio		10:1			
Recommended cycle rate for continuous duty	60 cycles per	minute, or 3 gpm			
Pump discharge pressure	1200 psi)	83 bar, 8.3 MPa			
Air volume requirements					
Without spray tip	23 cfm at 70 psi	0.64 m ³ /minute at 4.8 bar (480 kPa)			
With 0.062 in. spray tip, included with unit	32 cfm at 100 psi	0.90 m ³ /minute at 6.9 bar (690 kPa)			
Weight					
All models	55 lb	24.95 kg			
Noise (dBa)					
Sound pressure level*	83 dBa at 100 psi (6.8 bar, 0.68 MPa)—40 cycles/minute (at one meter)				
Sound power level**	96 dBa at 100 psi (6.8 bar, 0.68 MPa)—40 cycles/minute				
*Sound pressure measured 3.37 feet (1 meter) from equipment.					
**Sound power measured per ISO-9614-2.					

California Proposition 65

CALIFORNIA RESIDENTS

WARNING: Cancer and reproductive harm – 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.

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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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FOR GRACO CANADA CUSTOMERS

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Graco Information

For the latest information about Graco products, visit www.graco.com. For patent information, see www.graco.com/patents.

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor. Phone: 612-623-6921 or Toll Free: 1-800-328-0211, Fax: 612-378-3505

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Original instructions. This manual contains English. MM 306817

Graco Headquarters: Minneapolis International Offices: Belgium, China, Japan, Korea

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