# **Instructions-Parts List**



#### For use with Graco fluid handling pumps.

See your pump instruction manual for Maximum Working Pressure.

Model 205647, Series M

For in-line mounting, medium-pressure oil pump

Model 206078, Series M

For in-line mounting, high-pressure grease pump

Model 205038, Series N For stanchion tube mounting

Model 207352, Series G For divorced mounting

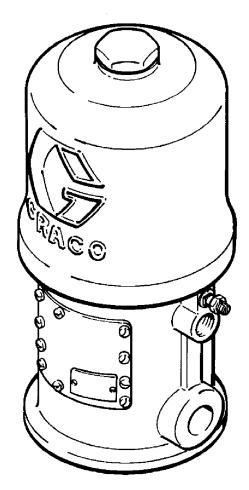
Model 222772, Series G For divorced mounting



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

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Model 207352 Shown



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306982ZAD

# **Symbols**

#### Warning Symbol

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#### WARNING

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

#### Caution Symbol

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

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.
<ul> <li>Read all instruction manuals, tags, and labels before operating the equipment.</li> </ul>
• Use the equipment only for its intended purpose. If you are not sure, call your Graco distributor.
<ul> <li>Do not alter or modify this equipment.</li> </ul>
<ul> <li>Check equipment daily. Repair or replace worn or damaged parts immediately.</li> </ul>
• Do not exceed the maximum working pressure stated on the equipment or in the <b>Technical Data</b> 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 <b>Tech-nical Data</b> section of all equipment manuals. Read the fluid and solvent manufacturer's warnings.
<ul> <li>Handle hoses carefully. Do not pull on hoses to move equipment.</li> </ul>
<ul> <li>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).</li> </ul>
<ul> <li>Wear hearing protection when operating this equipment.</li> </ul>
<ul> <li>Do not move or lift pressurized equipment.</li> </ul>
• Comply with all applicable local, state, and national fire, electrical, and safety regulations.
• <b>Never</b> exceed 180 psi (1.2 MPa, 12 bar) air pressure to the motor, and <b>never</b> 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. <b>Do not</b> exceed the maximum working pressure of any component or accessory used in the system.

# 

	SKIN INJECTION HAZARD							
<b>₽</b> ĝ	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. <b>Get immediate surgical treatment</b> .							
	<ul> <li>Do not point the dispensing valve at anyone or any part of the body.</li> </ul>							
	<ul> <li>Do not put your hand or fingers over the end of the dispensing valve.</li> </ul>							
	<ul> <li>Do not stop or deflect leaks with your hand, body, glove or rag.</li> </ul>							
	• Use only extensions and no-drip tips that are designed for use with your dispensing valve.							
	Tighten all fluid connections before operating the equipment.							
	<ul> <li>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.</li> </ul>							
	MOVING PARTS HAZARD							
	Moving parts can pinch or amputate your fingers.							
	• Keep clear of all moving parts when starting or operating the pump.							
	<ul> <li>Before checking or servicing the equipment, follow the Pressure Relief Procedure on page 6 to prevent the equipment from starting unexpectedly.</li> </ul>							

# A WARNING

Ko H	FIRE AND EXPLOSION HAZARD
	Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and re- sult in a fire or explosion and serious injury.
	<ul> <li>Ground the equipment and the object being sprayed. Refer to Grounding on page 5.</li> </ul>
	• If there is any static sparking or you feel an electric shock while using this equipment, <b>stop spray-</b> <b>ing immediately.</b> Do not use the equipment until you identify and correct the problem.
	<ul> <li>Provide fresh air ventilation to avoid the buildup of flammable fumes from solvents or the fluid being sprayed.</li> </ul>
	<ul> <li>Keep the spray area free of debris, including solvent, rags, and gasoline.</li> </ul>
	<ul> <li>Before operating this equipment, electrically disconnect all equipment in the spray area.</li> </ul>
	<ul> <li>Before operating this equipment, extinguish all open flames or pilot lights in the spray area.</li> </ul>
	<ul> <li>Do not smoke in the spray area.</li> </ul>
	<ul> <li>Do not turn on or off any light switch in the spray area while spraying or while operating if fumes are present.</li> </ul>
	<ul> <li>Do not operate a gasoline engine in the spray area.</li> </ul>
	TOXIC FLUID HAZARD
Q	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 <b>Technical Data</b> section of your pump manual. Always read the manufacturer's literature before using fluid or solvent in your pump.
	<ul> <li>Know the specific hazards of the fluid you are using.</li> </ul>
	<ul> <li>Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.</li> </ul>
	• 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

## A WARNING



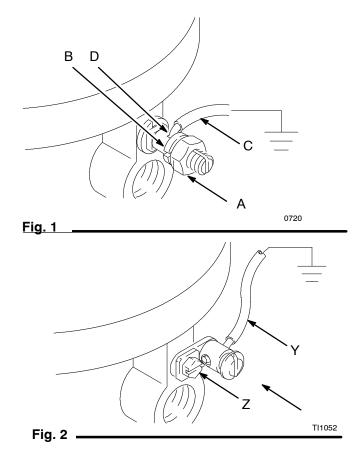
**FIRE AND EXPLOSION HAZARD** Before operating the pump, ground the system as explained below. Also read the section **FIRE OR EXPLOSION HAZ-ARD** on page 4.

• *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 mm<sup>2</sup>) 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.

*Model No. 206078:* Remove the ground screw (Z) and insert through the eye of the ring terminal at end of ground wire (Y). Fasten the ground screw back onto the pump and tighten securely. Connect the other end of the ground wire to a true earth ground. See Fig. 2. *To order a ground wire and clamp, order Part No. 222011.* 

- *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.



# Installation

#### **Pressure Relief Procedure**

### WARNING



#### **SKIN 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
- 1. Engage the spray gun/dispensing valve safety latch.
- Shut off the air to the motor. 2.
- Close the bleed-type master air valve (required in 3. your system).
- 4. Disengage the gun/valve safety latch.
- 5. 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.
- Engage the gun/valve safety latch. 6.
- 7. Open the pump drain valve (required in your system), having a container ready to catch the drainage.
- Leave the drain valve open until you are ready to 8. 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 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.

## 

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 cap nut (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.

#### 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. Use all the parts in the kit for best results. Parts included in the air motor kit are marked with double asterisks (\*\*) in text and drawings. See the parts list and drawing for your pump (pages 14 to 22) 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.

#### 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 cylinder cap nut (F) from the cylinder (G). Pull up on the cap nut. Grip the trip rod (H) with padded pliers 207579 and screw the cap nut off the trip rod. See Fig. 2.

#### 

**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.  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.

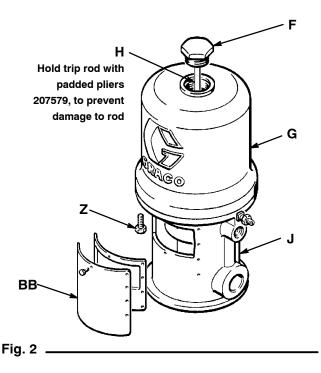
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To avoid damaging the cylinder wall, ALWAYS lift the cylinder **straight up** off of the piston. **Never** tilt the cylinder as it is being removed.

## 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.



- 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.
- 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.

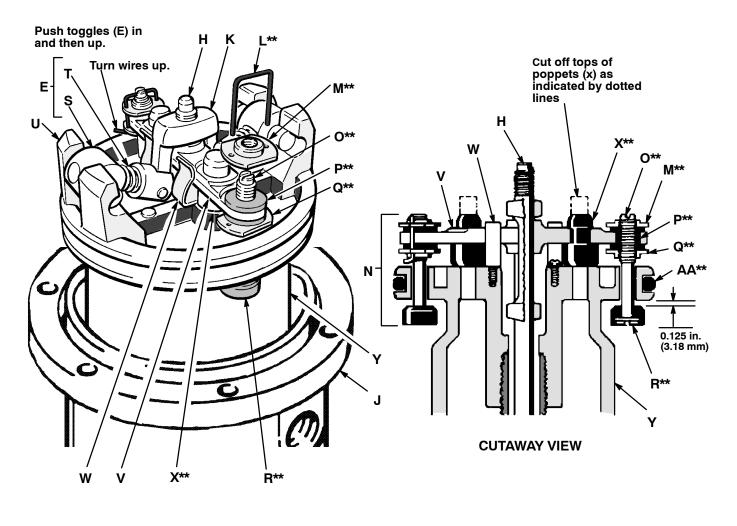


Fig. 3\_

#### Reassembly

- 1. 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.
- 2. 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).
- Pull the exhaust valve poppets (X\*\*) into the valve actuator (V) and clip off the top part shown with dotted lines. See Fig. 3.
- 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.

- Set gap on inlet valve (N) using the .125 in. (3.18 mm) side of gauge 171818. Rotate valve stem (O\*\*) until snug against gauge, then back off until valve stem slot is lined up with wire holes in valve nut (M\*\*) (do not back off more than 1/2 turn). See Fig. 3. Install lockwires (L\*\*) in the adjusting nuts M\*\* and Q\*\*).
- Snap the toggle assemblies (E) to the *up* position. Reinstall the cylinder (G) and hold the trip rod (H) in place with tool 207579. Apply a medium strength thread locking compound to the threads of the trip rod (H) and assemble the cap nut (F) to the trip rod (H). Torque the cap nut (F) to 60 lb-in (6.8) N-m). Install cap nut (F) into cylinder (G).
- 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.

#### Throat Packing Service for In-Line Pump Model 205647

### 

The piston in the air motor, located behind the air motor plates, moves when air is supplied to the motor. Moving parts can pinch or amputate your fingers or other body parts. Therefore, **never** operate the pump with the air motor plates removed.

**NOTE:** See Fig. 4 on page 12 and the **Parts Drawing** on page 14.

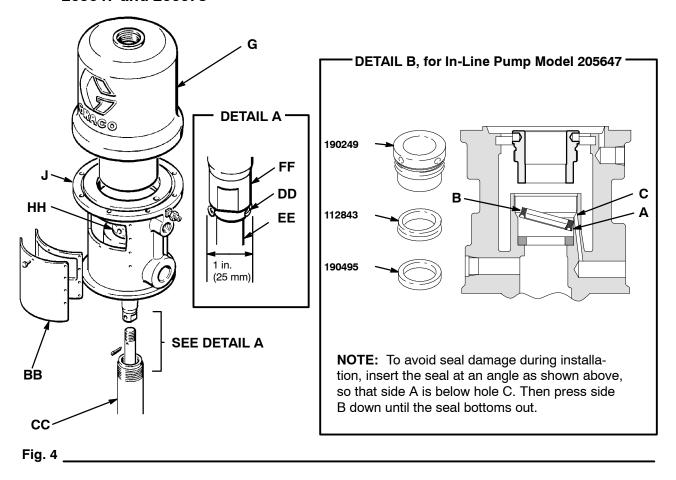
- Clamp the pump in a vise and unscrew the displacement cylinder (CC) from the air motor base (J). Pull the displacement cylinder away from the air motor until the cotter pin (DD) which secures the displacement pump connecting rod to the air motor piston rod (FF) is visible. See Fig. 4.
- Remove the cotter pin (DD) and unscrew the pump connecting rod (EE) from the air motor piston rod (FF). See Fig. 4. Remove the cylinder (G) from the air motor base (J) as described under Disassembly on page 8.

- 3. Remove one louvered air exhaust plate (BB) and unscrew the throat packing nut (HH), using a spanner wrench or a 0.22 in. (5.6 mm) diameter rod. See Fig. 4. Remove the spacer and packing from the base and packing nut. Clean the throat packing area in the base and the packing nut. Clean and inspect all parts and replace as necessary.
- 4. Lubricate the packings, piston rod and piston flange with a light waterproof grease. Reinstall the spacer and packing in the base and packing nut. Be sure the lips of the v-packings face down. See Detail B. Screw the packing nut loosely into the base. Carefully slide the piston rod down through the throat packing and lower the piston into the base. Tighten the packing nut securely. Reinstall the plate (BB) and cylinder (G). Reassemble the air motor to the displacement pump.

## 

When reinstalling cotter pin (DD), **always** spread and flatten the pin (both the head and prongs) around the rod to within a 1 in. (25 mm) total diameter. See Detail A of Fig. 4.

In-Line Pump Models 205647 and 206078



#### Throat Packing Service for In-Line Pump Model 206078

### 

The piston in the air motor, located behind the air motor plates, moves when air is supplied to the motor. Moving parts can pinch or amputate your fingers or other body parts. Therefore, **never** operate the pump with the air motor plates removed.

See Fig. 4 on page 12 and the **Parts Drawing** on page 16.

- Clamp the pump in a vise and unscrew the displacement cylinder (CC) from the air motor base (J). Pull the displacement cylinder away from the air motor until the cotter pin (DD) which secures the displacement pump connecting rod to the air motor piston rod (FF) is visible. See Fig. 4.
- Remove the cotter pin (DD) and unscrew the pump connecting rod (EE) from the air motor piston rod (FF). See Fig. 4. Remove the cylinder (G) from the air motor base (J) as described under Disassembly on page 8.
- 3. Remove one louvered air exhaust plate (BB) and unscrew the throat packing nut (HH), using a spanner wrench or a 0.22 in. (5.6 mm) diameter rod. See Fig. 4.
- Remove the packing nut (45<sup>†</sup>), male and female glands (47<sup>†</sup>, 48<sup>†</sup>), v-packings (49<sup>†</sup>), washer (44<sup>†</sup>), bearing (46<sup>†</sup>), retainer (24<sup>†</sup>), wiper (22<sup>†</sup>), o-ring (23<sup>†</sup>), u-cup (25<sup>†</sup>), and washer (26<sup>†</sup>) from the base.

- 5. Clean the throat packing area in the base and the packing nut. Clean and inspect all parts, and replace as necessary.
- 6. Lubricate the packings, piston rod and piston flange with a light waterproof grease.
- Install the washer (26<sup>†</sup>) into the base. Assemble the packing (25<sup>†</sup>) and the wiper (22<sup>†</sup>) into the retainer (24<sup>†</sup>). Install the o-ring (23<sup>†</sup>) onto the retainer, and insert the retainer assembly into the base.

**NOTE:** Make sure the packing (25†) lips face down, and make sure the wiper (22†) lips face up.

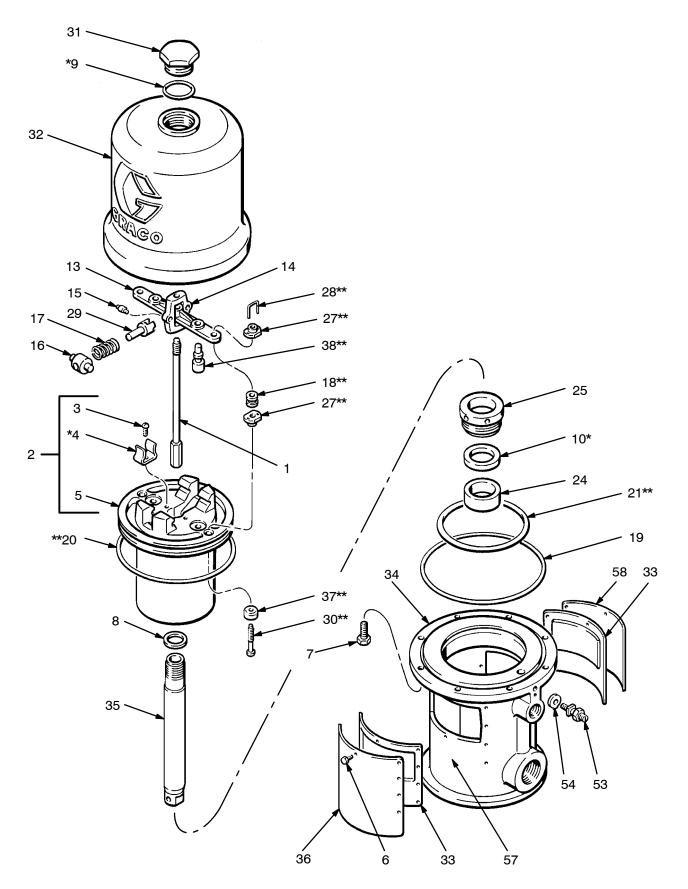
- Insert the bearing (46†) and the washer (44†) into the base. Assemble the female gland (48†), v-packings (49†), and the male gland (47†) into the packing nut (45†).
- 9. Reinstall the spacer and packing in the base and packing nut (45<sup>†</sup>). Screw the packing nut into the base, and tighten it securely. Carefully slide the piston rod (FF) down through the throat packing, and lower the piston into the base. Reinstall the plate (BB) and cylinder (G). Reassemble the air motor to the displacement pump.
- 10. Torque the outlet adapter (42) to 45 to 55 ft-lb (61 to 75 N-m).

### 

When reinstalling cotter pin (DD), **always** spread and flatten the pin (both the head and prongs) around the rod to within a 1 in. (25 mm) total diameter. See Detail A of Fig. 4.

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Parts
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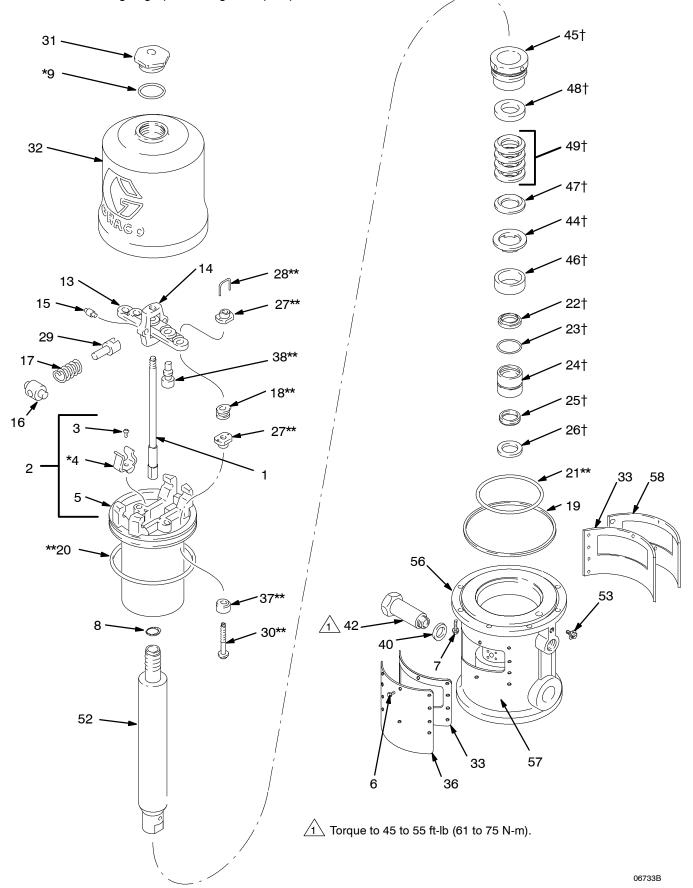
Model 205647, Series M for in-line mounting, medium-pressure oil pump



Model 205647, Series M for in-line mounting, medium-pressure oil pump

Ref			_	Ref			_
No.	Part No.	Description	Qty	No.	Part No.	Description	Qty
1	207150	TRIP ROD	1	30	160896**	STEM, valve	2
2	207391	PISTON		31	161435	NUT, cylinder cap	1
		includes items 3 to 5 (also includes		32	162629	CYLINDER, motor, air	1
		207385 repair kit when ordered		33	178270	PLATE, muffler	2
		as a replacement part)	1	34	164924	BASE, motor, air	1
3	102975	.SCREW, rd hd mach; 6-32 x 1/4 in	. 2	35	164925	ROD, piston	1
4	158361*	.CLIP, spring	2	36	177844	PLATE, identification	1
5		.BARE PISTON (not sold separately)	) 1	37	170708**	POPPET, valve; urethane	2
6	17M262	SCREW, hex head; 8-32 x 3/8 in.	20	38	170709**	POPPET, valve; urethane	2
7	101578	SCREW, hex head Nylock;		53	104029	LUG, grounding	1
		8–32 x 3/8 in.	8	54	104582	WASHER, tab	1
8	150647	GASKET; copper	1	57	180233	LABEL, warning	2
9	156698*	O-RING; Buna-N	1	58▲	177843	PLATE, warning	1
10	112843*	PACKING, block, V	1	* ⊑		al an ana manta ta baara an baard	
13	158359	ACTUATOR, valve	1	^ F	Recommende	d spare parts to keep on hand.	
14	158360	YOKE, rod, trip	1	** lı	acluded in Re	pair Kit 207385. Must be	
15	158362	PIN, toggle	2			•	
16	158364	ROCKER, toggle	2	þ	urchased sep	Jaralely.	
17	167585	SPRING, helical compression	2	▲ I	fusers of this	equipment do not read English,	VOU
18	158367**	GROMMET; rubber	2			e of the following labels to apply to	
19	158377	SEAL, flat ring; nitrile rubber	1		•	. Apply the label over the matchi	
20	158378**	SEAL, o-ring; nitrile rubber	1	-			-
21	158379**	SEAL, o-ring; nitrile rubber	1			r motor plate for good visibility.	
24	190495	SPACER, throat	1			air exhaust holes. Order the labe	
25	190249	NUT, packing	1	fi	ree of charge	directly from Graco. Contact you	r
27	160261**	NUT, adjusting	4	d	listributor to c	order.	
28	160618**	LOCKWIRE, transfer valve	2	F	rench	290466	
29	160623	ARM, toggle	2	S	Spanish	290468	

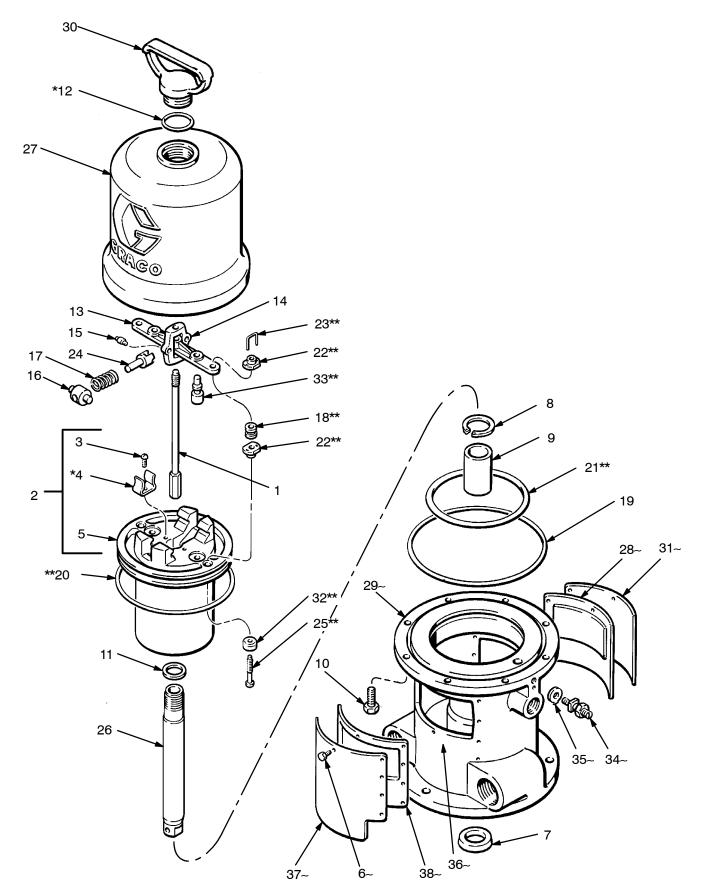
Model 206078, Series M for in-line mounting, high-pressure grease pump



Model 206078, Series L for in-line mounting, high-pressure grease pump

No.         Part No.         Description         Qty         No.         Part No.         Description         Qty           1         207150         THIP ROD         1         40         150461         GASKET: copper         1           2         207391         PISTON         42         621201         ADAPTER, outlet         1           3         102975         SCREW, rdh dmach; 6-32 x 1/4 in. 2         471         1580697         WASHER, thrust         1           4*         158361         CUP, spring         2         481         1580307         GLAND, male         1           5	Ref				Ref			
2       207391       PISTON       42       621201       ADAPTER, outlet       1         207391       PISTON       42       621201       ADAPTER, outlet       1         3       102975       SCREW, red, rit when ordered as a replacement part)       1       461       159047       NUT, packing       1         4*       158361       .CLIP, spring       2       481       159306       GLAND, male       1         5       .BARE PISTON (not sold separately)       1       491       159308       V-PACKING; intile rubber       4         6       17M262       SCREW, hex head Nylock;       52       162553       ROD, piston       1         7       101578       SCREW, hex head Nylock;       8       56       15F570       BASE, motor, air       1         8       150647       GASKET; copper       1       57       180233       LABEL, warning       2         14       158369       ACTUATOR, valve       1       54       177843       PLATE, warning       1         15       158378       SFAL, oring; nitrile rubber       1       *       Recommended spare parts to keep on hand.         15       158377       SFAL, oring; nitrile rubber       1       *       <		Part No.	Description	Qty	No.	Part No.	Description	Qty
includes items 3 to 5 (also includes as a replacement part)       44†       158697       WASHER, thrust       1         3       102975       .SCREW, rd hd mach; 6-32 x 1/4 in.       2       47†       159048       BEARING, brass       1         4*       158361       .CLIP, spring       2       48†       159307       GLAND, male       1         5       .BARE PISTON (not sold separately)       1       49†       159308       V-PACKING; nitrile rubber       4         6       17M262       SCREW, hex head; 8-32 x 3/8 in.       20       52       162553       ROD, piston       1         7       101578       SCREW, hex head; 8-32 x 3/8 in.       8       56       15F570       BASE, motor, air       1         8       150647       GASKET; copper       1       57       180233       LABEL, warning       2         9*       156836       ACTUATOR, valve       1       57       180233       LABEL, warning       1         14       158362       PIN, toggle       2       **       Recommended spare parts to keep on hand.       **         15       158367       GROMMET; rubber       1       **       Recommended sparately.       **         14       158378       SEAL, o	1	207150	TRIP ROD	1	40	150461	GASKET; copper	1
207385 replair kit when ordered as a replacement part)     1     451     159048     BEARING, brass     1       3     102975     .SCREW, ind mach; 6-32 x 1/4 in. 2     471     159306     GLAND, female     1       4*     158361     .CLIP, spring     2     481     159307     GLAND, female     1       5	2	207391	PISTON		42	621201		1
as a replacement part)       1       461       19048       BERRING, brass       1         3       102975       .SCREW, rd hd mach; 6-32 x 1/4 in       2       471       159306       GLAND, male       1         5       .BARE PISTON (not sold separately)       1       491       159307       GLAND, female       1         6       17M262       SCREW, hex head Nylock;       20       491       159307       GLAND, female       1         7       101578       SCREW, hex head Nylock;       53       116343       SCREW, grounding       1         8       150647       GASKET; copper       1       557       180233       LABEL, warning       2         9*       156689       O-RING; Buna-N       1       558       1177843       PLATE, warning       1         13       158360       YOKE, rod, trip       1       54       158367       Recommended spare parts to keep on hand.         15       158367       GROMMET; rubber       1       *       Recommended spare parts to keep on hand.         219       158378       SEAL, o-ring; nitrile rubber       1       *       Service parts for air motor throat packing area.         121*       13944       PACKING, u-cup       1       Ser			includes items 3 to 5 (also includes		44†	158697	WASHER, thrust	1
3       102975       .SCREW, rd hd mach; 6-32 x 1/4 in. .CLIP, spring       2       47†       19806       GLAND, male       1         4*       158361       .CLIP, spring       2       48†       159307       GLAND, female       1         6       17M262       SCREW, hex head; 8-32 x 3/8 in.       20       52       162553       ROD, piston       1         7       101578       SCREW, hex head Nylock;       53       116343       SCREW, grounding       1         8       150647       GASKET; copper       1       57       180233       LABEL, warning       2         9*       156698       O-RING; Buna-N       1       58       177843       PLATE, warning       1         14       158359       ACTUATOR, valve       1       *       Recommended spare parts to keep on hand.       *         15       158362       PIN, toggle       2       **       Included in Repair Kit 207385. Must be purchased separately.         18**       158378       SEAL, o-ring; nitrile rubber       1       *       Service parts for air motor throat packing area.         19       158378       SEAL, o-ring; nitrile rubber       1       *       If users of this equipment do not read English, you may order one of the following labels to apply to your			•		45†	159047		1
3       102975       .SCREW, rd hd mach; 6-32 x 1/4 in.       2       47†       19806       GLAND, male       1         4*       158361       .CLIP, spring       2       48†       159307       GLAND, female       1         6       17M262       SCREW, hex head; 8-32 x 3/8 in.       20       52       162553       ROD, piston       1         7       101578       SCREW, hex head; 8-32 x 3/8 in.       20       52       162533       ROD, piston       1         8       150647       GASKET; copper       1       57       180233       LABEL, warning       2         9*       156698       O-RING; Buna-N       1       57       180233       LABEL, warning       1         14       158360       YOKE, rod, trip       1       *       Recommended spare parts to keep on hand.       1         15       158362       PIN, toggle       2       **       Included in Repair Kit 207385. Must be purchased separately.         18**       158378       SEAL, o-ring; nitrile rubber       1       *       Service parts for air motor throat packing area.         11*       158378       SEAL, o-ring; nitrile rubber       1       *       If users of this equipment do not read English, you may order one of the following labels to apply			as a replacement part)	1	46†	159048	BEARING, brass	1
5       BARE PISTON (not sold separately)       1       49†       159308       V-PACKING; nitrile rubber       4         6       17M262       SCREW, hex head 8-32 x 3/8 in.       20       52       162553       ROD, piston       1         7       101578       SCREW, hex head Nylock;       53       116343       SCREW, grounding       1         8       150647       GASKET; copper       1       57       180233       LABEL, warning       2         9*       156698       O-RING; Buna-N       1       58▲       177843       PLATE, warning       1         13       158350       ACTUATOR, valve       1       **       Recommended spare parts to keep on hand.       **         15       158362       PIN, toggle       2       **       Included in Repair Kit 207385. Must be purchased separately.         16       158378       SEAL, oring; nitrile rubber       1       **       Service parts for air motor throat packing area.         17**       167885       SPRING, helical compression       2       **       Included in Repair Kit 207385. Must be purchased separately.         12***       158379       SEAL, oring; nitrile rubber       1       *       Service parts for air motor throat packing area.         12*1* <td< td=""><td>3</td><td>102975</td><td>.SCREW, rd hd mach; 6-32 x 1/4 in</td><td>. 2</td><td>47†</td><td>159306</td><td>GLAND, male</td><td>1</td></td<>	3	102975	.SCREW, rd hd mach; 6-32 x 1/4 in	. 2	47†	159306	GLAND, male	1
6       17M262       SCREW, hex head; 8-32 x 3/8 in.       20       52       162553       ROD, piston       1         7       101578       SCREW, hex head; 8-32 x 3/8 in.       20       52       162553       ROD, piston       1         8       150647       GASKET; copper       1       57       180233       LABEL, warning       2         9*       156698       O-RING; Buna-N       1       58       177843       PLATE, warning       1         13       158359       ACTUATOR, valve       1       **       Recommended spare parts to keep on hand.       **         15       158362       PIN, toggle       2       **       Included in Repair Kit 207385. Must be purchased separately.         18***       158378       SEAL, oring; nitrile rubber       1       **       Service parts for air motor throat packing area.         113935       WIPER, rod       1       **       Service parts for air motor throat packing area.         12***       158378       SEAL, oring; nitrile rubber       1       **         119336       PACKING, u-cup       1       fu suers 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.         27***       160261       NUT,	4*	158361	.CLIP, spring	2	48†	159307	GLAND, female	1
7       101578       SCREW, hex head Nylock; 8-32 x 3/8 in.       53       116343       SCREW, grounding       1         8       150647       GASKET; copper       1       57       180233       LABEL, warning       2         9*       156698       O-RING; Buna-N       1       58▲       177843       PLATE, warning       1         13       158360       YOKE, rod, trip       1       *       Recommended spare parts to keep on hand.       *         15       158362       PIN, toggle       2       **       Included in Repair Kit 207385. Must be purchased separately.         16       158377       SEAL, flat ring; nitrile rubber       1       *       Service parts for air motor throat packing area. Must be purchased separately.         17**       187837       SEAL, o-ring; nitrile rubber       1       *       *         21**       113935       WIPER, rod       1       *       *         22*1       113936       PACKING, o-ring       1       *       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.         23*1       113936       PACKING, u-cup       1       *         24*1       192172	5		.BARE PISTON (not sold separately,	) 1	49†	159308	V-PACKING; nitrile rubber	4
8-32 x 3/8 in.       8       56       15F570       BASE, motor, air       1         8       150647       GASKET; copper       1       57       180233       LABEL, warning       2         9*       166698       O-RING; Buna-N       1       58       177843       PLATE, warning       1         14       158369       ACTUATOR, valve       1       58       177843       PLATE, warning       1         15       158362       PIN, toggle       2       **       Recommended spare parts to keep on hand.         15       158367       GROMMET; rubber       2       **       Included in Repair Kit 207385. Must be purchased separately.         18***       158377       SEAL, fat ring; nitrile rubber       1       **       Service parts for air motor throat packing area. Must be purchased separately.         21***       158378       SEAL, o-ring; nitrile rubber       1       **       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.         27***       16021       NUT, adjusting       1         28***       160618       LOCKWIRE, transfer valve       2         31       161435       NUT,	6	17M262	SCREW, hex head; 8-32 x 3/8 in.	20	52	162553	ROD, piston	1
8       150647       GASKET; copper       1       57       180233       LABEL, warning       2         9*       156698       O-RING; Buna-N       1	7	101578	SCREW, hex head Nylock;		53	116343	SCREW, grounding	1
9*       156698       O-RING; Buña-N       1         13       156698       O-RING; Buña-N       1         14       158350       ACTUATOR, valve       1         14       158350       YOKE, rod, trip       1         15       158362       PIN, toggle       2         16       158364       ROCKER, toggle       2         17       167585       SPRING, helical compression       2         19       158377       SEAL, o-ring; nitrile rubber       1         21**       158379       SEAL, o-ring; nitrile rubber       1         21**       13935       WIPER, rod       1         221       113936       PACKING, o-ring       1         231       113944       PACKING, u-cup       1         251       113936       PACKING, u-cup       1         261       192173       WASHER, packing       1         27***       160618       LOCKWIRE, transfer valve       2         30***       16068       STEM, valve       2         31       161435       NUT, cylinder cap       1         32       162629       CYLINDER, motor, air       1         32       162629			8-32 x 3/8 in.	8	56	15F570	BASE, motor, air	1
13       158359       ACTUATOR, valve       1         14       158360       YOKE, rod, trip       1         15       158362       PIN, toggle       2         16       158364       ROCKER, toggle       2         17       167585       SPRING, helical compression       2         18**       158367       GROMMET, rubber       2         19       158377       SEAL, o-ring; nitrile rubber       1         20**       158378       SEAL, o-ring; nitrile rubber       1         21*       113935       WIPER, rod       1         231       113944       PACKING, u-cup       1         241       192172       RETAINER, packing       1         25†       113936       PACKING, u-cup       1         26†       192173       WASHER, packing       1         27***       160618       LOCKWIRE, transfer valve       2         29       160623       ARM, toggle       2         30***       160896       STEM, valve       2         31       178270       PLATE, muffler       2         36       177844       PLATE, identification       1         15555       for FireBall® 425		150647	GASKET; copper	1	57	180233	LABEL, warning	2
14       158360       YOKE, rod, trip       1       **       Recommended spare parts to keep on hand.         15       158362       PIN, toggle       2         16       158364       ROCKER, toggle       2         17       167585       SPRING, helical compression       2         18***       158367       GROMMET; rubber       2         19       158377       SEAL, oring; nitrile rubber       1         21***       158378       SEAL, oring; nitrile rubber       1         21***       158379       SEAL, oring; nitrile rubber       1         221       113935       WIPER, rod       1         231       113944       PACKING, u-cup       1         241       192172       RETAINER, packing       1         251       113936       PACKING, u-cup       1         261       192173       WASHER, packing       1         27***       160618       LOCKWIRE, transfer valve       2         29       160623       ARM, toggle       2         30***       160896       STEM, valve       2         31       161435       NUT, cylinder cap       1         32       162629       CYLINDER, motor, air	9*	156698	O-RING; Buna-N	1	58	177843	PLATE, warning	1
15       158362       PIN, toggle       2         16       158364       ROCKER, toggle       2         17       167585       SPRING, helical compression       2         18**       158367       GROMMET; rubber       2         19       158377       SEAL, flat ring; nitrile rubber       1         20**       158378       SEAL, o-ring; nitrile rubber       1         21**       158379       SEAL, o-ring; nitrile rubber       1         22†       113934       PACKING, o-ring       1         231       113944       PACKING, u-cup       1         25†       113936       PACKING, u-cup       1         26**       160261       NUT, adjusting       4         27***       160261       NUT, adjusting       4         28***       160618       LOCKWIRE, transfer valve       2         30***       160896       STEM, valve       2         31       161435       NUT, cylinder cap       1         32       162629       CYLINDER, motr, air       1         33       178270       PLATE, identification       1         36       177844       PLATE, identification       1	13	158359	ACTUATOR, valve	1				
16158364ROCKER, toggle217167585SPRING, helical compression218**158367GROMMET; rubber219158377SEAL, o-ring; nitrile rubber120**158379SEAL, o-ring; nitrile rubber121**158379SEAL, o-ring; nitrile rubber121**158379SEAL, o-ring; nitrile rubber121*113935WIPER, rod121*113936PACKING, o-ring124†192172RETAINER, packing125†113936PACKING, u-cup126†192173WASHER, packing127**160261NUT, adjusting428**160618LOCKWIRE, transfer valve229160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap133178270PLATE, muffler236177844PLATE, identification115E555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731237**170708POPPET, valve; urethane2	14	158360	YOKE, rod, trip	1	*	Recommende	ed spare parts to keep on hand.	
17167585SPRING, helical compression218**158367GROMMET; rubber219158377SEAL, fat ring; nitrile rubber120**158378SEAL, o-ring; nitrile rubber121**158378SEAL, o-ring; nitrile rubber122†113935WIPER, rod123†113944PACKING, o-ring124†192172RETAINER, packing125†113936PACKING, u-cup126†192173WASHER, packing127**160261NUT, adjusting428**160618LOCKWIRE, transfer valve229160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap133178270PLATE, muffler236177844PLATE, identification115555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731237**170708POPPET, valve; urethane2		158362	PIN, toggle					
17167585SPRING, helical compression218***158367GROMMET; rubber219158377SEAL, fat ring; nitrile rubber120**158379SEAL, o-ring; nitrile rubber121**158379SEAL, o-ring; nitrile rubber121**158379SEAL, o-ring; nitrile rubber121**158379SEAL, o-ring; nitrile rubber121*113935WIPER, rod121*113936PACKING, o-ring124†192172RETAINER, packing125†113936PACKING, u-cup126†192173WASHER, packing127**160261NUT, adjusting428**160618LOCKWIRE, transfer valve229160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, identification115555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731237**170708POPPET, valve; urethane2	16	158364	ROCKER, toggle	2	**	Included in R	epair Kit 207385. Must be purc	hased
18**158367GROMMET; rubber219158377SEAL, flat ring; nitrile rubber120**158378SEAL, o-ring; nitrile rubber121**158379SEAL, o-ring; nitrile rubber121**113935WIPER, rod123†113944PACKING, o-ring124†192172RETAINER, packing125†113936PACKING, u-cup126†192173WASHER, packing126†192173WASHER, packing127**160261NUT, adjusting428**160618LOCKWIRE, transfer valve220**160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, identification136177844PLATE, identification136177844PLATE, identification137**170708POPPET, valve; urethane2	17	167585	SPRING, helical compression	2				
20***158378SEAL, o-ring; nitrile rubber121***158379SEAL, o-ring; nitrile rubber122†113935WIPER, rod123†113944PACKING, o-ring124†192172RETAINER, packing125†113936PACKING, u-cup126†192173WASHER, packing127**160261NUT, adjusting428**160618LOCKWIRE, transfer valve229160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, identification136177844PLATE, identification115E555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731237**170708POPPET, valve; urethane2	18**	158367	GROMMET; rubber	2		ooparatory		
20***158378SEAL, 0-ring; nitrile rubber121 ***158379SEAL, 0-ring; nitrile rubber122†113935WIPER, rod123†113944PACKING, o-ring124†192172RETAINER, packing125†113936PACKING, u-cup126†192173WASHER, packing126†192173WASHER, packing127***160261NUT, adjusting428***160618LOCKWIRE, transfer valve229160623ARM, toggle230***160896STEM, valve231161435NUT, cylinder cap133178270PLATE, muffler236177844PLATE, identification115E555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731237**170708POPPET, valve; urethane2	19	158377	SEAL, flat ring; nitrile rubber	1	+	Service parts	for air motor throat packing are	a
21***138379SEAL, 0-Hilg, filtrile fubber122†113935WIPER, rod123†113944PACKING, o-ring124†192172RETAINER, packing125†113936PACKING, u-cup126†192173WASHER, packing127***160261NUT, adjusting428***160618LOCKWIRE, transfer valve229160623ARM, toggle230***160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, identification115E555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731137**170708POPPET, valve; urethane2		158378	SEAL, o-ring; nitrile rubber	1	I			u.
23†113944PACKING, o-ring124†192172RETAINER, packing125†113936PACKING, u-cup126†192173WASHER, packing126†192173WASHER, packing127**160261NUT, adjusting428**160618LOCKWIRE, transfer valve229160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, muffler236177844PLATE, identification115E555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731137**170708POPPET, valve; urethane2		158379		1		Must be pure	ilased separately.	
231119344Indikting, orning241192172RETAINER, packing1251113936PACKING, u-cup1261192173WASHER, packing127**160261NUT, adjusting428**160618LOCKWIRE, transfer valve229160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, muffler236177844PLATE, identification115E555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731237**170708POPPET, valve; urethane2	22†	113935	WIPER, rod	1		If we are of the	a annionant de natura d'Engliel	_
251113936PACKING, u-cup1261192173WASHER, packing1apply to your air motor. Apply the label over the matching label on the air motor plate for good27**160261NUT, adjusting4visibility. Do not cover the air exhaust holes.28**160618LOCKWIRE, transfer valve2Order the labels free of charge directly from29160623ARM, toggle2Graco. Contact your distributor to order.30**160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, muffler236177844PLATE, identification115E555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731537**170708POPPET, valve; urethane2	23†	113944	PACKING, o-ring	1				1,
26†192173WASHER, packing1matching label on the air motor plate for good27**160261NUT, adjusting4visibility. Do not cover the air exhaust holes.28**160618LOCKWIRE, transfer valve2Order the labels free of charge directly from29160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, muffler236177844PLATE, identification115E555for FireBall <sup>®</sup> 425 models: 205394, 205395,239729, 239730 and 239731German37**170708POPPET, valve; urethane2	24†	192172	RETAINER, packing	1		• •	-	
27**160261NUT, adjusting4visibility. Do not cover the air exhaust holes.28**160618LOCKWIRE, transfer valve2Order the labels free of charge directly from29160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, muffler236177844PLATE, identification115E555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731German37**170708POPPET, valve; urethane2	25†	113936		1				
28**160618LOCKWIRE, transfer valve229160623ARM, toggle230**160896STEM, valve231161435NUT, cylinder cap132162629CYLINDER, motor, air133178270PLATE, muffler236177844PLATE, identification115E555for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731German37**170708POPPET, valve; urethane2	26†	192173	WASHER, packing	1		matching lab	el on the air motor plate for good	d
29       160623       ARM, toggle       2         30**       160896       STEM, valve       2         31       161435       NUT, cylinder cap       1         32       162629       CYLINDER, motor, air       1         33       178270       PLATE, muffler       2         36       177844       PLATE, identification       1         15E555       for FireBall® 425 models: 205394, 205395, 239729, 239730 and 239731       Spanish       290468         37**       170708       POPPET, valve; urethane       2       4			NUT, adjusting			visibility. Do	not cover the air exhaust holes.	
30**       160896       STEM, valve       2         31       161435       NUT, cylinder cap       1         32       162629       CYLINDER, motor, air       1         33       178270       PLATE, muffler       2         36       177844       PLATE, identification       1         15E555       for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731       Spanish       290468         37**       170708       POPPET, valve; urethane       2		160618				Order the lab	els free of charge directly from	
30**       160896       STEM, valve       2         31       161435       NUT, cylinder cap       1       German       290467         32       162629       CYLINDER, motor, air       1       French       290466         33       178270       PLATE, muffler       2       Spanish       290466         36       177844       PLATE, identification       1       Spanish       290468         15E555       for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731       2       2       2         37**       170708       POPPET, valve; urethane       2       2       2		160623					<b>č</b> ,	
32       162629       CYLINDER, motor, air       1       French       290466         33       178270       PLATE, muffler       2       Spanish       290466         36       177844       PLATE, identification       1       Spanish       290468         15E555       for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731       2       2         37**       170708       POPPET, valve; urethane       2	30**	160896		2			,, ,	
32       162629       CYLINDER, motor, air       1       French       290466         33       178270       PLATE, muffler       2       Spanish       290466         36       177844       PLATE, identification       1       Spanish       290468         15E555       for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731       2       37**       170708       POPPET, valve; urethane       2	31	161435		1		German	290467	
33       178270       PLATE, mumer       2         36       177844       PLATE, identification       1       Spanish       290468         15E555       for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731       205395,239729, 239730 and 239731         37**       170708       POPPET, valve; urethane       2								
30         177644         F Level, identification           15E555         for FireBall® 425 models: 205394, 205395,239729, 239730 and 239731           37**         170708           POPPET, valve; urethane         2								
205395,239729, 239730 and 239731 37** 170708 POPPET, valve; urethane 2	36			1		Spanish	290408	
37** 170708 POPPET, valve; urethane 2		15E555						
38** 170709 POPPET. valve: urethane 2								
	38**	170709	POPPET, valve; urethane	2				

Model 205038, Series N for stanchion tube mountings



#### Model 205038, Series N

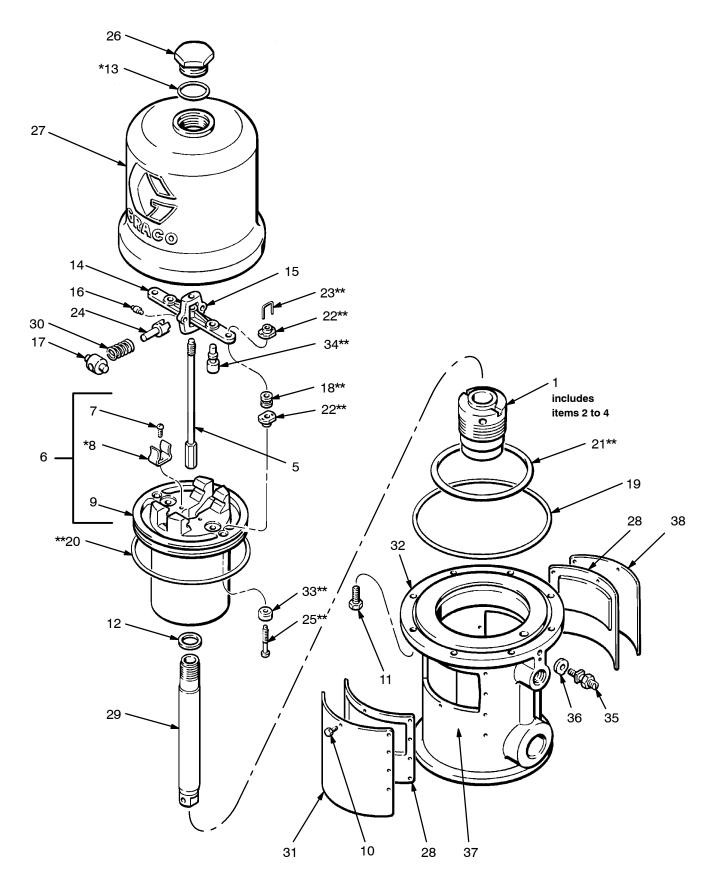
for stanchion tube mountings

Ref No.	Part No.	Description	Qty	Ref No.	Part No.	Description	Qty
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 18 9 20 21 22 23 24 25	207150 207391 102975 158361* 17M262~ 16H224* 101525 101526 101578 150647 156698* 158359 158360 158362 158364 167585 158367** 158377** 158378** 158379** 160261** 160618** 160623 160896**	TRIP ROD PISTON includes items 3 to 5 (also includes 207385 repair kit when ordered as a replacement part) .SCREW, rd hd mach; 6-32 x 1/4 in .CLIP, spring .BARE PISTON (not sold separately, SCREW, hex head; 8-32 x 3/8 in. SEAL, wiper; polyurethane RING, retainer BEARING; bronze SCREW, hex head Nylock; 8-32 x 3/8 in. GASKET; copper O-RING; Buna-N ACTUATOR, valve YOKE, rod, trip PIN, toggle ROCKER, toggle SPRING, helical compression GROMMET; rubber SEAL, o-ring; nitrile rubber SEAL, o-ring; nitrile rubber SEAL, o-ring; nitrile rubber NUT, adjusting LOCKWIRE, transfer valve ARM, toggle STEM, valve	2	~ Ir 2· ** Ir p ▲ If m v la n, fr	178269~ Recommende Included in Air 4F303. Must Included in Re urchased sep i users of this hay order one our air motor abel on the ai ot cover the a	e equipment do not read English, e of the following labels to apply to . Apply the label over the matchin r motor plate for good visibility. D air exhaust holes. Order the labe directly from Graco. Contact you	ng )o Is
				-	German French	290464 290463	

Spanish

290465

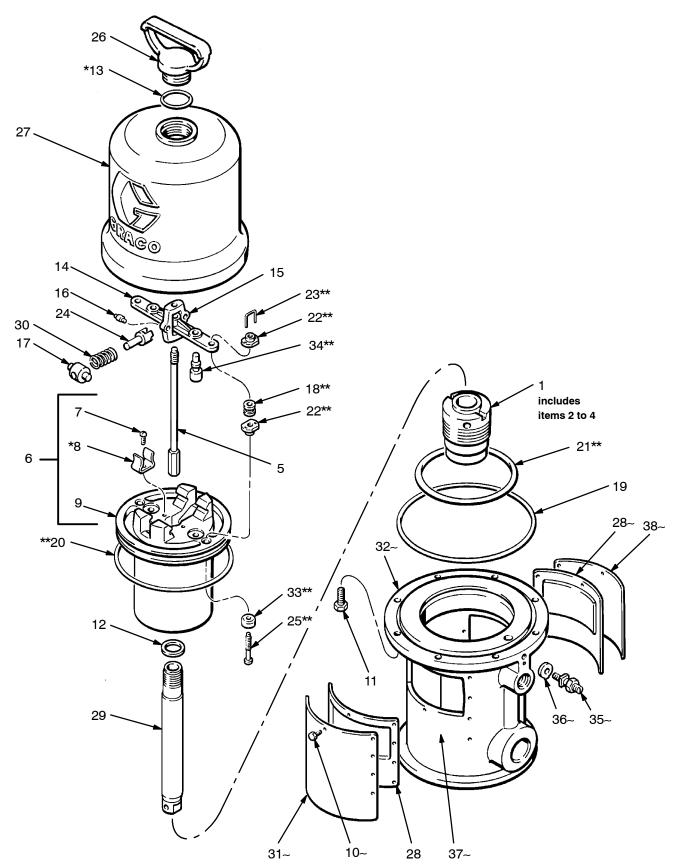
Model 207352, Series G for divorced mountings



# Model 207352, Series G for divorced mountings

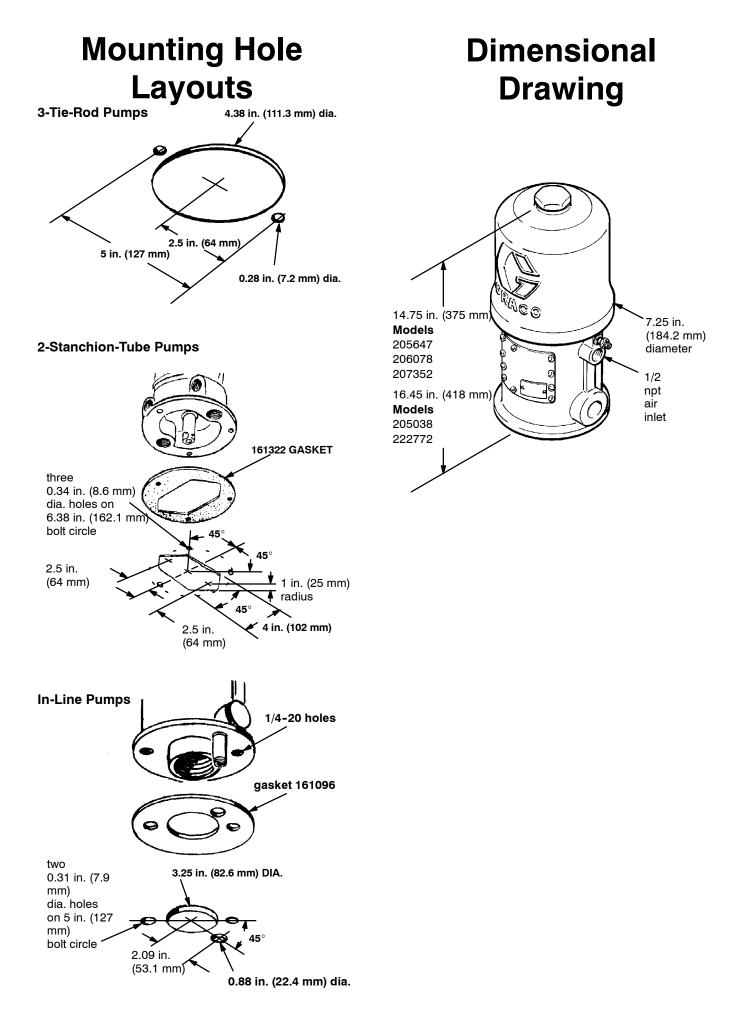
Ref				Ref			
No.	Part No.	Description	Qty	No.	Part No.	Description	Qty
1	205529	PACKING NUT		26	161435	NUT, cylinder cap	1
		includes items 2 to 4	1	27	162629	CYLINDER, motor, air	1
2	16H224*	.SEAL, wiper; polyurethane	1	28	178270	PLATE, muffler	2
3	101526	.BEARING; bronze	1	29	166235	ROD, piston	1
4	164701	.NUT, packing	1	30	167585	SPRING, helical compression	2
5	207150	TRIP ROD	1	31	177844	PLATE, identification	1
6	207391	PISTON		32	168656	BASE, motor, air	1
		includes items 7 to 9 (also includes		33	170708**	POPPET, valve; urethane	2
		207385 repair kit when ordered		34	170709**	POPPET, valve; urethane	2
		as a replacement part)	1	35	104029	LUG, grounding	1
7	102975	.SCREW, rd hd mach; 6-32 x 1/4 in	. 2	36	104582	WASHER, tab	1
8	158361*	.CLIP, spring	2	37	180233	LABEL, warning	2
9		.BARE PISTON (not sold separately)	) 1	38	177843	PLATE, warning	1
10 11	17M262 101578	SCREW, hex head; 8-32 x 3/8 in. SCREW, hex head Nylock;	20	* Re	ecommende	d spare parts to keep on hand.	
	101070	8–32 x 3/8 in.	8				
12	150647	GASKET; copper	1			epair Kit 207385. Must be	
13	156698*	O-RING; Buna-N	1	pu	irchased sep	parately.	
14	158359	ACTUATOR, valve	1	۰ IC		and incorrect de met wood Emplish	
15	158360	YOKE, rod, trip	1			equipment do not read English,	•
16	158362	PIN, toggle	2			e of the following labels to apply to	
17	158364	ROCKER, toggle	2			. Apply the label over the matching	•
18	158367**	GROMMET; rubber	2	la	bel on the ai	r motor plate for good visibility. D	0
19	158377	SEAL, flat ring; nitrile rubber	1	nc	ot cover the a	air exhaust holes. Order the labe	ls
20	158378**	SEAL, o-ring; nitrile rubber	1	fre	e of charge	directly from Graco. Contact you	r
21	158379**	SEAL, o-ring; nitrile rubber	1	di	stributor to o	order.	
22	160261**	NUT, adjusting	4	0	orm on	000467	
23	160618**	LOCKWIRE, transfer valve	2		erman	290467	
24	160623	ARM, toggle	2		ench	290466	
25	160896**	STEM, valve	2	Sp	banish	290468	

Model 222772, Series G for divorced mountings



# Model 222772, Series G for divorced mountings

Ref				Ref			
No.	Part No.	Description	Qty	No.	Part No.	Description	Qty
1	205529	PACKING NUT		26	164704	NUT, cylinder cap	1
		includes items 2 to 4	1	27	162629	CYLINDER, motor, air	1
2	16H224*	.SEAL, wiper; polyurethane	1	28	178270~	PLATE, muffler	2
3	101526	.BEARING; bronze	1	29	166235	ROD, piston	1
4	164701	.NUT, packing	1	30	167585	SPRING, helical compression	2
5	207150	TRIP ROD	1	31	177844~	PLATE, identification	1
6	207391	PISTON		32	184120~	BASE, motor, air	1
		includes items 7 to 9 (also includes		33	170708**	POPPET, valve; urethane	2
		207385 repair kit when ordered		34	170709**	POPPET, valve; urethane	2
		as a replacement part)	1	35	104029~	LUG, grounding	1
7	102975	.SCREW, rd hd mach; 6-32 x 1/4 in		36	104582~	WASHER, tab	1
8	158361*	.CLIP, spring	2	37	180233~	LABEL, warning	2
9		.BARE PISTON (not sold separately)	1	38▲	177843~	PLATE, warning	1
10	17M262~	SCREW, hex head; 8-32 x 3/8 in.	20	30	177043~	FLATE, warning	1
11	101578	SCREW, hex head Nylock;		* R	lecommende	d spare parts to keep on hand.	
		8-32 x 3/8 in.	8				
12	150647	GASKET; copper	1	** Ir	ncluded in Re	pair Kit 207385. Must be	
13	156698*	O-RING; Buna-N	1	р	urchased sep	parately.	
14	158359	ACTUATOR, valve	1				
15	158360	YOKE, rod, trip	1			Motor Base Replacement Kit	
16	158362	PIN, toggle	2	2	6D118. Mus <sup>-</sup>	t be purchased separately.	
17	158364	ROCKER, toggle	2				
18	158367**	GROMMET; rubber	2			equipment do not read English,	
19	158377	SEAL, flat ring; nitrile rubber	1			e of the following labels to apply t	
20	158378**	SEAL, o-ring; nitrile rubber	1			. Apply the label over the matchi	
21	158379**	SEAL, o-ring; nitrile rubber	1			r motor plate for good visibility.	
22	160261**	NUT, adjusting	4	n	ot cover the a	air exhaust holes. Order the labe	els
23	160618**	LOCKWIRE, transfer valve	2	fr	ee of charge	directly from Graco. Contact you	ır
24	160623	ARM, toggle	2		istributor to o		
25	160896**	STEM, valve	2				
					Berman	290467	
					rench	290466	
				S	panish	290468	



# **Technical Data**

Maximum inbound air pressure	180 psi (1.2 MPa, 12 bar)
Effective piston area	14 sq. in. (90 cm <sup>2</sup> )
Effective piston diameter	
Stroke	4 in. (102 mm)
Air valves	<i>Transfer:</i> nitrile rubber
	<i>Exhaust:</i> 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	113 dBa

\* 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 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.

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## **Graco Information**

For the latest information about Graco products, visit www.graco.com.

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

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 306982

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

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