INSTRUCTIONS–PARTS LIST

309017

Rev. B

This manual contains important warnings and information.
READ AND KEEP FOR REFERENCE.

INSTRUCTIONS

First choice when quality counts.™

Belt-Drive

AquaMax™ Pressure Washers

Model 804599, Series A

AquaMax BD9628 pressure washer with 16-hp, V-Twin engine and 960 liters/hr (4.3 gpm) pump on Lo-Boy cart with hose, gun, and tips

280 bar, 28 MPa (4000 psi) Maximum Working Pressure

Model 804600, Series A

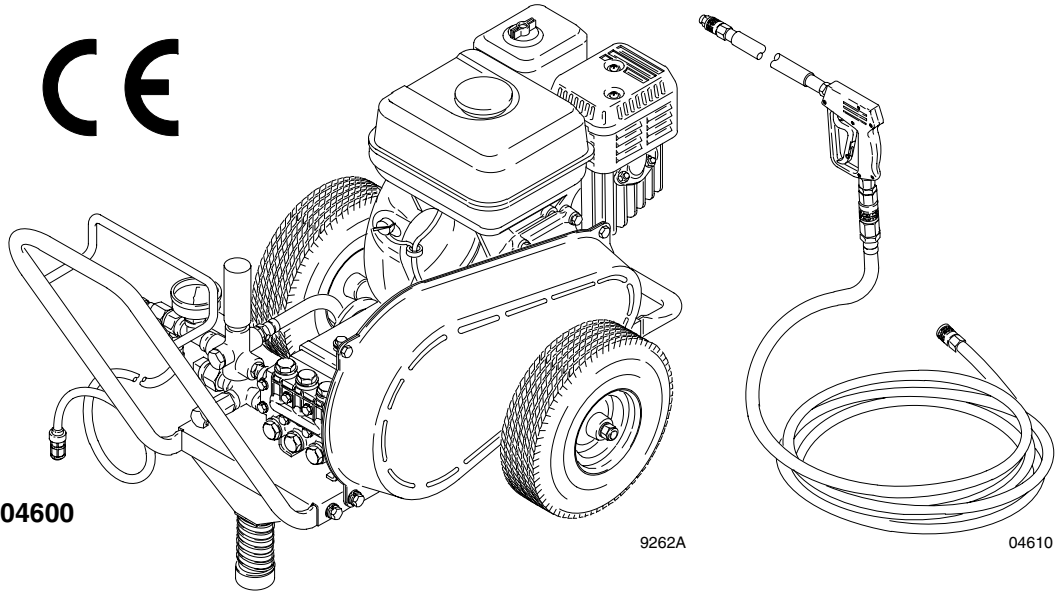
AquaMax BD9024 pressure washer with 13-hp engine and 900 liters/hr (4 gpm) pump on Lo-Boy cart with hose, gun, and tips

240 bar, 24 MPa (3500 psi) Maximum Working Pressure

U.S. Patent
Patented 1983, Canada
and other patents pending

Related Manual

Spray Gun 308511



Model 804600

9262A 04610

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440–1441

Graco Inc. is registered to I.S. EN ISO 9001

Table of Contents

Symbols

Warning Symbol

⚠ WARNING

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

Caution Symbol

⚠ CAUTION

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

⚠ WARNING

INJECTION HAZARD

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

- Fluid injected into the skin might look like just a cut, but it is a serious injury. **Get emergency medical attention.**
- Do not point gun at anyone or at any part of body.
- Do not stop or deflect leaks with hand, body, glove, or rag.
- Do not put hand or fingers over spray tip.
- Tighten fluid connections before starting equipment.
- Engage the gun trigger safety whenever you stop spraying.
- Follow **Pressure Relief Procedure** on page 5 if spray tip clogs and before cleaning, checking, or servicing equipment.
- Repair or replace worn or damaged parts immediately.
- Check hoses, tubes, and coupling daily. Do not repair high-pressure couplings: replace entire hose. Fluid hoses must have spring guards on both ends to prevent kinks and rupture.

⚠ WARNING

MOVING PARTS HAZARD

Moving parts, such as the drive belt, can pinch or amputate fingers.

- Keep clear of moving parts when starting or operating this equipment.
- Do not operate the pressure washer without all guards and interlocks installed and functioning.

HAZARDOUS FLUIDS

Improper handling of hazardous fluids can cause serious injury or death due to splashing in eyes, ingestion, or bodily contamination.

- Know specific hazards of fluid being used.
- Store hazardous fluids in approved containers. Dispose of hazardous fluids per local, state and national guidelines.
- Wear protective eyewear, gloves, clothing, and respirator as recommended by fluid and solvent manufacturer.

FUEL HAZARD

The fuel used in this unit is combustible and when spilled on a hot surface can ignite and cause a fire. Do not fill the fuel tank while the engine is running or hot.

EXHAUST HAZARD

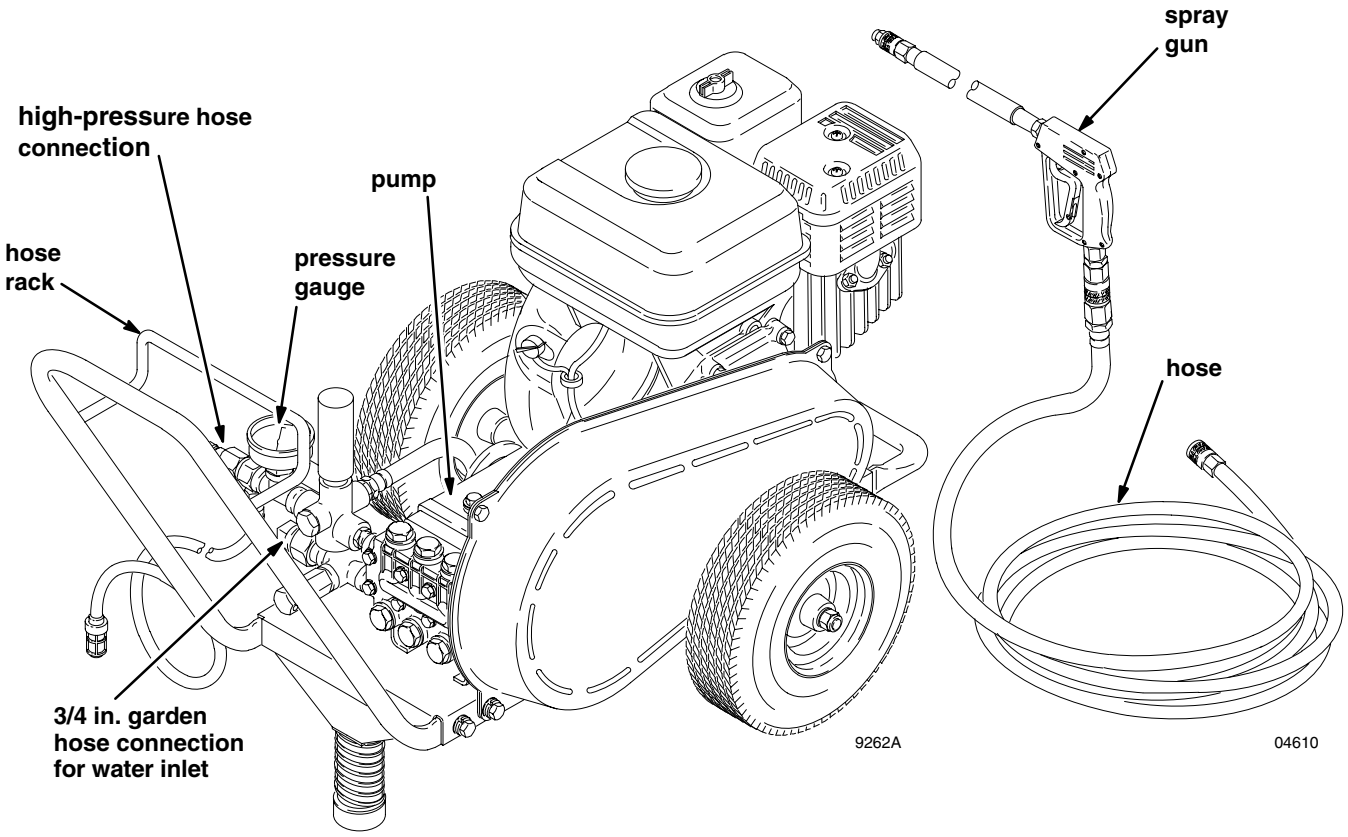
The exhaust contains poisonous carbon monoxide which is colorless and odorless. Do not operate this equipment in a closed building.

EQUIPMENT MISUSE HAZARD

Misuse of the pressure washer or accessories could cause them to rupture and result in fluid injection, splashing in the eyes or on the skin, or other serious injury.

- Do not alter or modify any part or factory-set adjustment of this equipment.
- Do not exceed the maximum working pressure of any component or accessory in the system.
- Do not use any chemicals that are incompatible with the wetted parts as stated in **Technical Data** on page 21.
- Do not alter throttle setting.

Setup



Model 804600 shown

Fig. 1

Check for Shipping Damage

Check the unit for any damage that could have occurred during shipping. **Notify the carrier immediately** if there is any damage.

Setup

Connect the high-pressure hose between the pump outlet and the gun inlet. Both of these connections are made with quick couplers.

⚠ CAUTION

Up to 100 ft (30 m) of high-pressure hose may be used. Longer hoses could affect pressure washer performance and chemical injector performance.

Install the appropriate spray tip on the wand. See **Installing and Changing Spray T ips** on page 7. If you are using a sandblaster kit, see its separate manual for installation instructions.

Connect to Water Supply

⚠ CAUTION

Before you connect to the water supply, check your local plumbing code regarding cross-connection to the water supply. A backflow preventer, Part No. 801133, is available to prevent backflow of contaminated water into the fresh water supply. Install it upstream from the pump.

If inlet water pressure is over 414 kPa, 4.1 bar (60 psi), a regulating water valve, Part No. 800258, must be installed at the garden hose connection.

Do not exceed 70° C (160°F) inlet water temperature.

Connect a hose with at least a 3/4 in. (19 mm) ID from the water supply to the unit's 3/4 in. garden hose inlet. The supply hose should not be more than 50 ft (15 m) long

NOTE: The water source at the unit *must* have a minimum flow rate equal to that of the unit. See **Technical Data** on page 21.

Operation

Pressure Relief Procedure

⚠ WARNING

INJECTION HAZARD
The system pressure must be manually relieved to prevent the system from spraying accidentally. To reduce the risk of an injury from accidental spray from the gun, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you

- Are instructed to relieve the pressure
- Stop spraying for more than 10 minutes
- Check or service any of the system equipment
- Install or clean the spray nozzle

1. Engage the trigger safety latch.
2. Turn the engine off.
3. Pull the plug wire off the spark plug.
4. Shut off the water supply.
5. Disengage the trigger safety latch, and trigger the gun to relieve pressure. Then engage the trigger safety latch again.

If you suspect that the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, disengage the trigger safety latch, and trigger the gun to relieve pressure. Wrap a rag around the hose end coupling, and **very slowly** loosen the coupling to relieve pressure gradually, then loosen it completely, and clear the tip or hose.

⚠ WARNING

PRESSURE INDICATED ON GAUGE
Always follow the **Pressure Relief Procedure** above, even if the gauge indicates no pressure.

Operating Cautions

Always observe the following **CAUTIONS** when operating the pressure washer to avoid costly damage to the pressure washer.

⚠ CAUTION

Do not allow the pressure washer to idle for more than 10 minutes. Doing so could cause the recirculating water to overheat and seriously damage the pump. Turn off the pressure washer if it will not be spraying for 10 minutes. **If heated inlet water is used, reduce this time further.** Do not operate the pressure washer with the inlet water screen removed; the screen helps keep abrasive sediment out of the pump, which could clog the pump or damage the cylinders. Keep the screen clean. Do not pump caustic materials; such materials could corrode the pump components. However, it is safe to pump antifreeze through the pump for cold-weather transport and storage.

Trigger Safety Latch

⚠ WARNING

To reduce the risk of serious bodily injury, including fluid injection and splashing in the eyes or on the skin, **always** engage the trigger safety latch when you stop spraying, even for a moment. In the engaged position, the trigger safety latch prevents the gun from being triggered accidentally by hand or if it is dropped or bumped. Be sure the latch is pushed fully down to prevent the gun from being triggered. See Fig. 2.

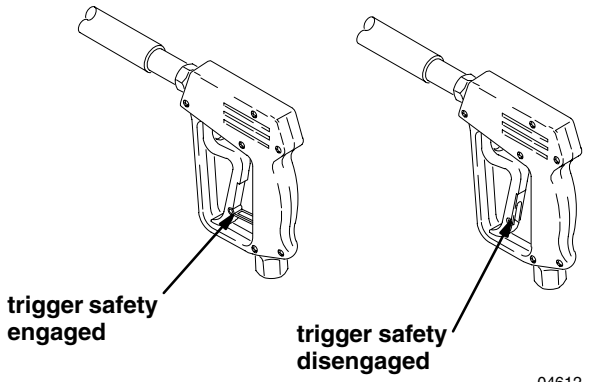


Fig. 2

Operation

Startup

Always use this startup procedure to ensure that the unit is started safely and properly.

1. Check the oil levels.

NOTE: All units are equipped with a low-oil sensor that shuts the engine off if the oil level falls below a certain level. If the unit stops unexpectedly, check the oil and the fuel levels. Check the oil level each time the unit is refueled.

⚠ WARNING

FIRE HAZARD

Do not refuel a hot engine. Refueling a hot engine could cause a fire. Use only fresh and clean regular or unleaded gasoline. Close the fuel shutoff valve when refueling.

2. Check the fuel level.

⚠ CAUTION

Never run the unit dry. Costly damage to the pump will result. Always be sure the water supply is completely turned on before operating.

3. Turn on the water supply.
4. Trigger the gun until water sprays from the tip indicating that the air is purged from the system.
5. Open the fuel shutoff valve. Be sure the spark plug ignition cable is pushed firmly onto the spark plug. Put the engine switch in the ON position, and put the throttle in the RUN position.
6. Start the engine with the electric starter, or pull the starter rope. If you use the starter rope to start the engine, brace one foot on the pressure washer cart, and pull the starter rope out quickly. Continue holding the rope as it returns.

⚠ CAUTION

Do not allow the starter rope to snap back against the engine. Return it gently to prevent damage to the recoil mechanism.

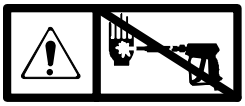
NOTE: For easier starting, have one person start the engine while another person triggers the spray gun.

If the engine is cold, start the engine with the choke completely closed. In cool weather, you might have to let the engine run with the choke closed for the first 20 to 30 seconds, then open it completely. In warm weather, open the choke completely as soon as the engine starts.

If the engine is warm, start the engine with the choke completely open or partially closed. When the engine starts, open the choke completely.

Chemical Injector Operation

NOTE: See manual 308513 for detailed chemical injector operation and service instructions.

1.  **Relieve the pressure.** See page 5.
2. Insert the chemical filter (attached with clear tubing to the chemical injector) into the chemical container.
3. Install the black, large-orifice chemical injector tip (see **Installing and Changing Spray T ips** on page 7).

   The large orifice of the chemical injector tip causes a drop in pressure that actuates the chemical injector. Changing back to a small diameter spray tip deactivates the chemical injector and produces high pressure for rinsing. The chemical filter can be left in the chemical container during high-pressure use. To regulate the flow rate of the chemical, turn the chemical adjustment knob on the injector. Maximum chemical flow is two full turns counterclockwise from the closed (clockwise) position.

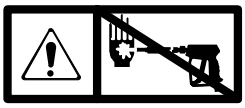
Operation

Installing and Changing Spray Tips

Tips are stored in storage holes on the cart of the pressure washer.

⚠ WARNING

To reduce the risk of serious bodily injury, including fluid injection and splashing in the eyes or on the skin, use extreme caution when changing spray tips. **Always** follow the procedure below.

1.  **Relieve the pressure.** See page 5.

2. Select a spray tip appropriate for your application. Spray tips are stamped with 4- or 5-digit numbers. The first two digits denote the spray angle. The following table lists the spray tips.

   NOTE: The chemical injector tip is brass and has a large opening and a black plastic cap.

Spray Tip Number	Spray Pattern Fan Angle
00XXX	0° blaster (red)
15XXX	15° (yellow)
25XXX	25° (green)
40XXX	40° (white)

3. Point the gun and wand away from yourself and anyone else.

4. Without holding your hand over the spray tip (A), pull back the quick coupler ring (B). Remove the current tip, install a different one, and push back the ring. See Fig. 3.

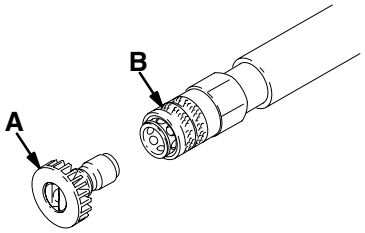


Fig. 3

5. Pull on the tip to be sure it is secure before you spray again.

⚠ CAUTION

To avoid blowing the O-ring out of the quick coupler due to the high pressure in the system, never operate the pressure washer without a tip securely mounted in the quick coupler.

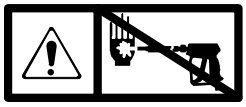
NOTE: See the sandblaster kit manual for detailed cleaning information if this accessory is used.

Shutdown, Flushing, and Storage

Antifreeze Flush Kit 802327 is available to make flushing easier. This kit is for flushing the system with 50% antifreeze solution prior to transporting or storing the pressure washer in below-freezing temperatures.

⚠ CAUTION

If water freezes in the pressure washer, thaw it in a warm room before trying to start it. Do not pour hot water on or into the pump; it could crack the ceramic plungers.



For **Pressure Relief**, see page 5.

- If the pressure washer will be exposed to freezing temperatures, flush the unit with a 50% antifreeze solution. **Relieve the pressure** and flush the pressure washer before you use it again to remove the antifreeze.
- Before long-term (overnight) storage or transporting of unit, disconnect the water supply and turn off the fuel supply valve.
- After each use, wipe all surfaces of the pressure washer with a clean, damp cloth.
- Perform the appropriate maintenance. See **Maintenance** chart on page 9.

Notes

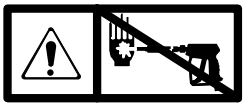
Maintenance

Observe regular maintenance intervals to ensure that you get maximum performance and life from the pressure washer.

There is a break-in period for the engine and pump. After you change the oil in these components following their break-in periods, the interval between required maintenance procedures is longer.

If operating the unit in dusty conditions, you should perform these maintenance procedures more often.

Always relieve the pressure before you begin.



For **Pressure Relief**, see page 5.

Interval	Maintenance
Daily	Clean water inlet screen and filter. Check engine and pump oil levels. Fill as necessary. Check gasoline level. Fill as necessary.
After first 5 hours of operation	Change engine break-in oil. Drain oil when warm. Use SAE 30 or 10W–30 detergent oil.
Every 25 hours of operation	Clean and remove air cleaner foam. Wash with water and detergent. Dry thoroughly. Rub with oil, and squeeze to distribute oil.
After first 50 hours of operation	Change pump break-in oil. Use SAE 20 or 30 non-detergent oil.
Every 100 hours of operation or every 3 months	Clean or replace paper air cleaner cartridge. Tap gently to remove dirt. Change engine oil. Use SAE 30 or 10W–30 detergent oil.
Every 500 hours of operation or every 6 months	Change pump oil. Use SAE 20 or 30 non-detergent oil.

Troubleshooting

⚠ WARNING

To reduce the risk of serious injury, including fluid injection and splashing in the eyes or on the skin, always follow **Pressure Relief Procedure** on page 5 before you proceed.

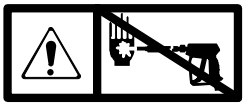
Problem	Cause	Solution
Engine does not start or is hard to start	No gasoline in fuel tank or carburetor	Fill the tank with gasoline, and open fuel shutoff valve. Check fuel line and carburetor.
	Low oil	Add to proper level.
	Start/Stop switch in Stop position	Move switch to Start position.
	Water in gasoline or fuel is old	Drain fuel tank and carburetor. Use new fuel and dry spark plug.
	Choked improperly, engine flooded	Open choke, and crank engine several times to clear out gas. Use dry spark plug.
	Dirty air cleaner filter	Remove and clean.
	Spark plug dirty, wrong gap, or wrong plug type	Clean, adjust the gap, or replace.
	Spray gun closed	Trigger spray gun while starting.
Engine misses or lacks power	Partially plugged air cleaner filter	Remove and clean.
	Spark plug dirty, wrong gap, or wrong plug type	Clean, adjust the spark plug gap or replace.
Low pressure and/or pump runs rough	Worn or wrong size tip	Replace with tip of proper size.
	Inlet filter clogged	Clean. Check more frequently.
	Worn packings, abrasives in water, or natural wear	Check filter. Replace packings. See **Pump Service** on page 12.
	Inadequate water supply	Check water flow rate to pump.
	Belt slippage	Tighten or replace; use correct belts and replace both at same time.
	Fouled or dirty inlet or discharge valves	Clean inlet and discharge valve assemblies. Check filter.
	Restricted inlet	Check garden hose; it might be collapsed or kinked.
	Worn inlet or discharge valves	Replace worn valves. See **Pump Service** on page 12.
	Leaking high-pressure hose	Replace high-pressure hose.
Water leakage from under pump manifold	Worn packings	Install new packings. See **Pump Service** on page 12.

Troubleshooting

Problem	Cause	Solution
Water in pump oil	Humid air condensing inside crankcase	Change oil as specified in Maintenance, page 9.
	Worn packings	Install new packings. See **Pump Service** on page 12.
	Oil seals leaking	Install new oil seals. See **Pump Service** on page 12.
Frequent or premature failure of the packings	Scored, damaged, or worn plungers	Install new plungers. See **Pump Service** on page 12.
	Abrasive material in the fluid being pumped	Install proper filtration on pump inlet plumbing.
	Inlet water temperature too high	Check water temperature; may not exceed 70° C (160° F).
	Overpressurizing pump	Do not modify any factory-set adjustments. See **Equipment Misuse Hazard** on page 3.
	Excessive pressure due to partially plugged or damaged tip	Clean or replace tip. See **Installing and Changing Spray Tips** on page 7.
	Pump running too long without spraying	Never run pump more than 10 minutes without spraying.
	Running pump dry	Do not run pump without water.
Strong surging at inlet and low pressure on discharge side	Foreign particles in the inlet or discharge valve or worn inlet and/or discharge valves	Clean or replace valves. See **Pump Service** on page 12.

Pump Service

Always relieve the pressure before you begin.



For **Pressure Relief**, see page 5.

NOTES:

- The following metric wrenches are needed: 10 mm, 13 mm, and 30 mm.
- Repair kits are available. See the individual repair sections and **Pump Parts** on page 14, and see the instructions that come with the kits. For the best results, use all parts in the kits.
- There are two different tool kits to aid in servicing the pump: Tool Kit 800298 is used to aid in installing packings. Tool Kit 800271 includes the items in 800298 and tools to aid in removing packing retainers.

Valves

NOTE: For a set of six valves, order 801472. See **Pump Repair Kits** on page 15.

1. Remove the hex plug from the manifold using a 30 mm wrench.
2. Examine the O-ring under the hex plug and replace if cut or distorted.
3. Remove the valve assembly from the cavity; the assembly can come apart.
4. Install the new valve. Install the O-ring and hex plug, and torque to 103 N-m (75 ft-lb).

   NOTE: Retorque the plug after 5 hours of operation.

Pumping Section

1. Remove the eight capscrews and lockwashers from the manifold using a 13 mm wrench.
2. Carefully separate the manifold from the crankcase.

NOTE: You might have to tap the manifold lightly with a soft mallet to loosen it.

⚠ CAUTION

Keep the manifold properly aligned with the ceramic plungers when removing to avoid damage to the plungers or seals.

3. Carefully examine each plunger for any scoring or cracking, and replace as necessary.

Servicing the Plungers

NOTE: Plunger repair kit 803510 is available to replace retainers, O-rings, washers and backup rings for three cylinders. See **Pump Repair Kits** on page 15.

1. Loosen the plunger retaining screw five to six turns, using a 10 mm wrench. Push the plunger towards the crankcase to separate the plunger and retaining screw.
2. Remove the screw from the plunger, and examine the O-ring, backup ring, and copper bearing/gasket washer. Replace these parts, if necessary.
3. Remove the plunger and flinger from the plunger shaft. Clean, examine and replace parts as necessary.
4. Inspect the plunger shaft for oil leakage from the crankcase. If leaking is obvious, replace the oil seals. If leaking is very minor, **do not** remove the seals, because they cannot be reused. Oil Seal Kit 801473 is available to replace the seals. See **Pump Repair Kits** on page 15.
5. Lightly grease the flinger and oil seal if they are being replaced, and put them on the plunger shaft. Then install the plunger.

6. Lightly grease the retaining screw and the outer end of the plunger. Place the washer, O-ring and backup ring around the screw and install the screw through the plunger. Torque to 19.5 N-m (14.4 ft-lb).
7. If you plan to replace the packings, see **Servicing the V-Packings** at right.
8. Lubricate the outside of each plunger. Slide the manifold onto the crankcase, being careful not to damage the seals.
9. Install the capscrews and washers finger-tight. Torque the screws to 29 N-m (21.7 ft-lb) following the tightening pattern shown in Fig. 4. Uneven tightening could cause the manifold to bind or jam.

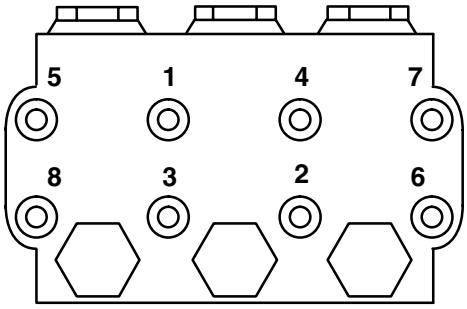


Fig. 4

Servicing the V-Packings

Packing Kit 803512 contains the packings, rings, and retainers. See **Pump Repair Kits** on page 15.

1. Remove the manifold as outlined in the Pumping Section.
2. Carefully pull the packing retainer from the manifold. Examine the O-ring and replace if cut or damaged.
3. Remove the v-packing and head ring. Pull out the intermediate retainer ring. Remove the second v-packing and second head ring.
4. Inspect all parts and replace as necessary.
5. Thoroughly clean the packing cavities and examine for debris or damage.
6. Lightly grease the packing cavities and then replace the packings in the following order: head ring, v-packing, intermediate ring, head ring, v-packing and packing retainer with the O-ring installed in the retainer groove.

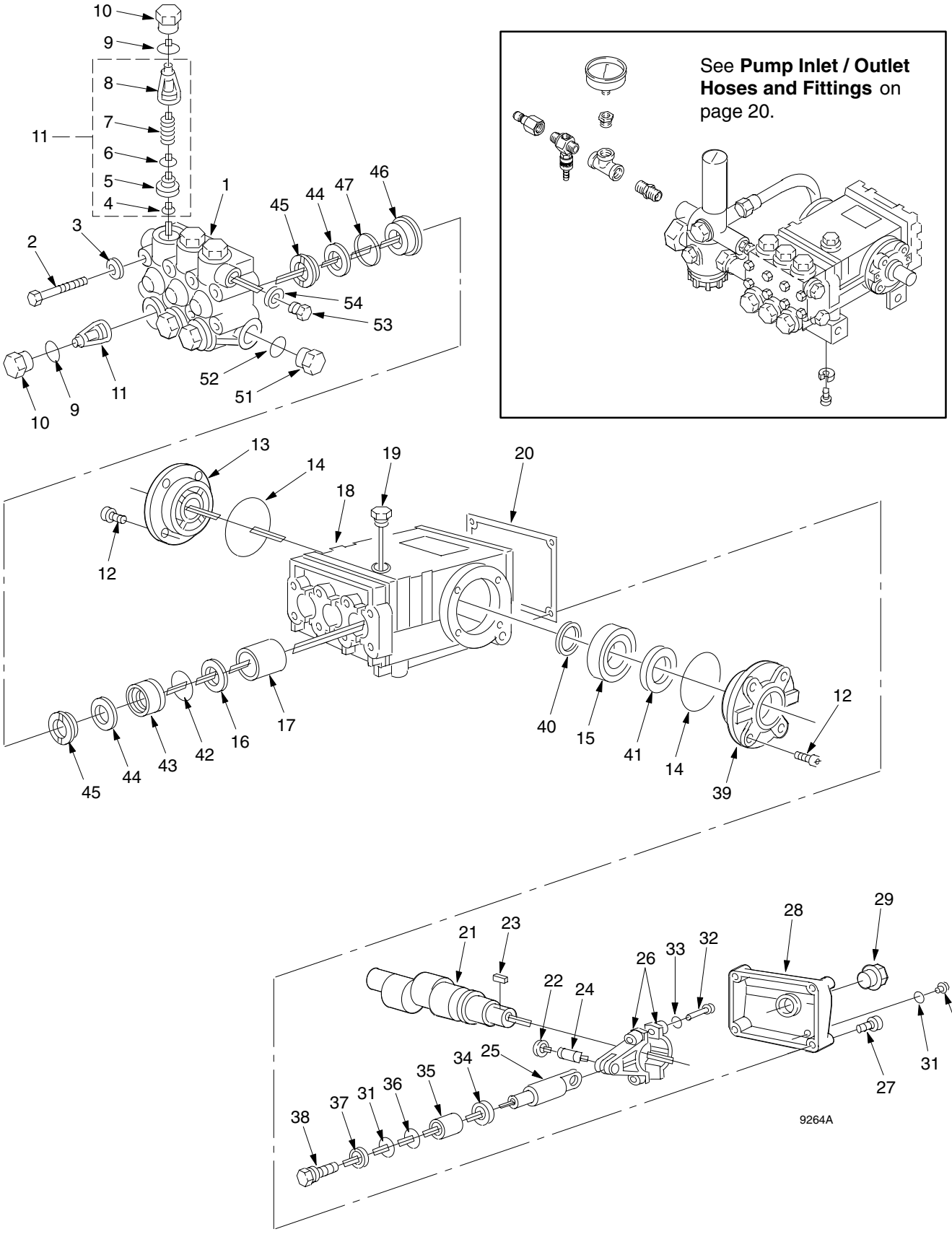
⚠ CAUTION

Install the parts in the proper order and facing the correct direction. Improperly installed parts will cause a malfunction.

7. Reassemble the manifold as instructed in **Servicing the Plungers**.

Pump Parts — 803508

Pump Part No. 803508 used on Model 804600, AquaMax BD9024 and Model 804599, AquaMax BD9268



Pump Parts — 803508

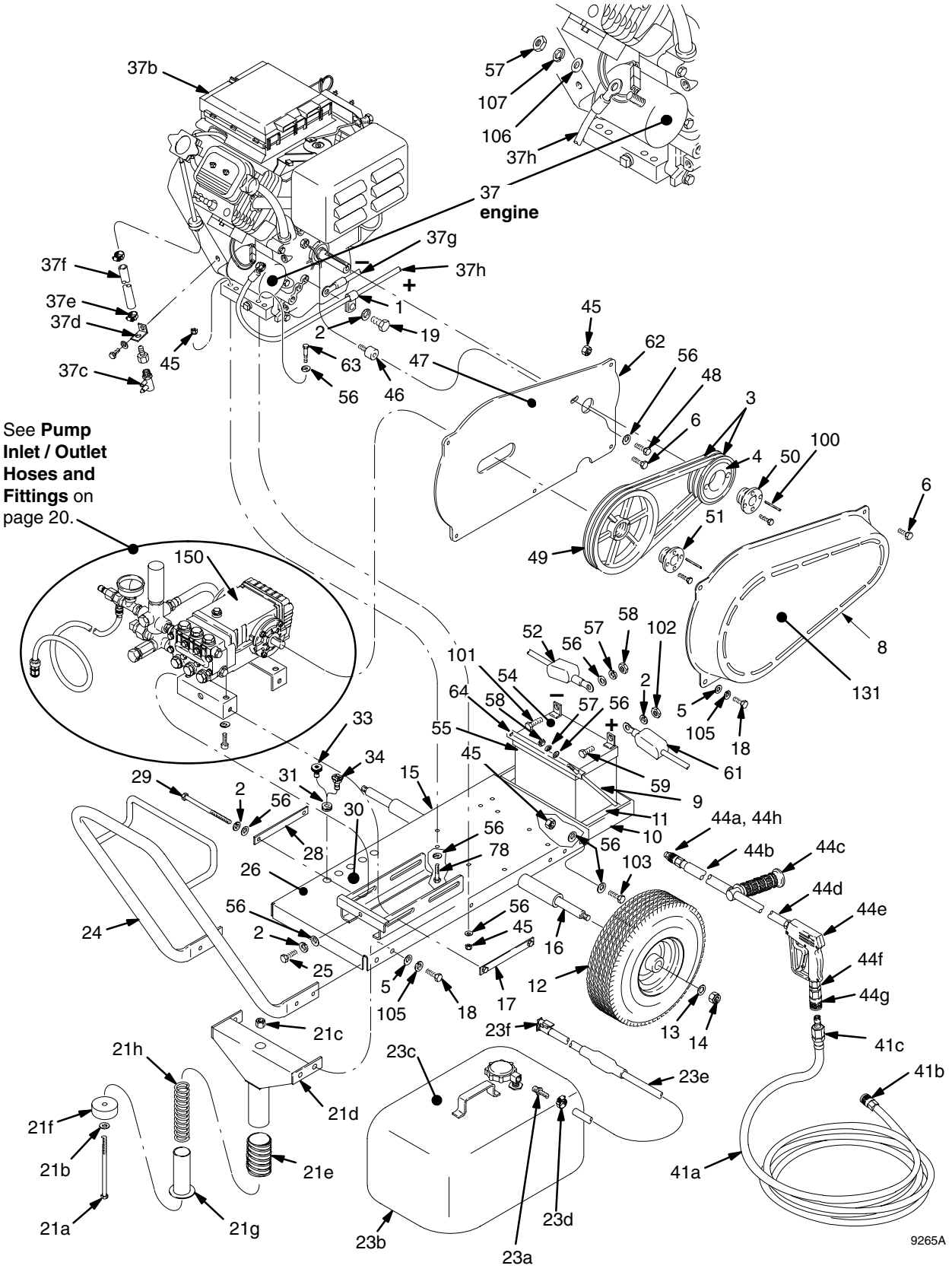
Ref No.	Part No.	Description	Qty
1	803504	MANIFOLD	1
2	801468	SCREW, cap, hex hd	8
3	801469	WASHER, lock	8
4	Kit 1	O-RING	
5	Kit 1	SEAT, valve	
6	Kit 1	PLATE, valve	
7	Kit 1	SPRING	
8	Kit 1	GUIDE, valve	
9	Kit 106	O-RING	
10	Kit 106	CAP	
11	Kit 1	VALVE ASSEMBLY	
12	803283	SCREW, cap, socket hd	8
13	803506	COVER, crankcase	1
14	802500	O-RING, crankcase cover	2
15	803324	BEARING, tapered roller	2
16	Kit 2	SEAL, oil	
17	803286	BUSHING, piston	3
18	803501	CRANKCASE	1
19	801475	DIPSTICK	1
20	803144	GASKET, cover	1
21	803287	CRANKSHAFT	1
22	803288	RING, retaining	6
23	802794	KEY	1
24	803289	PIN, wrist	3
25	803503	GUIDE, piston	3
26	803291	ROD, connecting	3
27	803292	SCREW, cap, socket hd	5
28	803507	COVER, crankcase	1
29	802345	GAUGE, sight	1
30	802793	PLUG, oil drain	1
31	Kit 107	O-RING	
32	803294	SCREW, cap, socket hd	6
33	803652	WASHER, lock	6
34	Kit 107	WASHER, flinger	
35	801490	PLUNGER, ceramic	3
	803502	PLUNGER, ceramic	3
36	Kit 107	RING, backup	
37	Kit 107	WASHER	
38	Kit 107	SCREW, piston	
39	803505	COVER, crankcase	1
40	803296	SHIM	2
41	Kit 3	SEAL, oil	
42	Kit 112	O-RING	
43	Kit 112	RETAINER, packing	
44	Kit 112	PACKING	
	Kit 109	PACKING	
45	Kit 112	RING, head	
46	Kit 112	RETAINER, packing	
47	Kit 112	RING, long Life	
51	801482	PLUG, hex	1
52	801483	WASHER, flat	1
53	801484	PLUG, hex	1
54	801485	WASHER, flat	1

Pump Repair Kits

Kit No.	Repair Kit Part No.	Ref No.	Description	Qty.
1	**801472** Valve	4	O-ring	6
		5	Valve seat	6
		6	Valve plate	6
		7	Spring	6
		8	Valve guide	6
		11	Valve assembly	6
2	**801473** Oil seal	16	Oil seal	3
3	**802511** Crankshaft seal	41	Oil seal	2
106	**803509** Valve cap	9	O-ring	6
		10	Cap	6
107	**803510** Plunger repair	31	O-ring	1
		34	Flinger washer	1
		36	Backup ring	1
		37	Washer	1
		38	Piston screw	1
109	**803511** Packing	44	Packing	3
		47	Long-life ring	3
		–	Packing	3
112	**803512** Packing & retainer	42	O-ring	1
		43	Packing retainer	1
		44	Packing	1
		45	Head ring	2
		46	Packing retainer	1
		47	Long-life ring	1
		–	Packing	1

Parts — Model 804599

AquaMax BD9268



Parts — Model 804599

AquaMax BD9268

USE ONLY GENUINE GRACO PARTS AND ACCESSORIES

Ref. No.	Part No.	Description	Qty.
1	108868	CLAMP, wire	1
2*	100214	WASHER, lock; 5/16	5
3	803889	BELT, drive	2
4	803943	SHEAVE, engine	1
5	100023	WASHER, flat; 5/16	4
6	110963	SCREW, flange, hex hd	5
8	803926	BELT GUARD	1
9	803525	BOLT, battery	2
10	804282	BRACKET, battery	1
11	801972	PAD, battery; size as required	1
12	801550	WHEEL & TIRE ASSEMBLY	2
13	801612	WASHER, flat; 1/2	2
14	801020	NUT, lock; 1/2–13	2
15	800676	CART	1
16	801556	AXLE	1
17	800678	BRACKET, rail stiffener	1
18	801546	SCREW, cap, hex hd; 3/8–16 x 1–1/4	4
19	108842	SCREW, cap, hex hd	1
21	800160	FRONT LEG ASSEMBLY (includes 21a to 21h)	
21a	801531	. SCREW, cap, hex hd; 3/8–16 x 7	1
21b	100132	. WASHER, flat	1
21c	101566	. NUT, lock	1
21d	801537	. LEG, front	1
21e	801506	. BOOT	1
21f	801504	. BUMPER, rubber	1
21g	801505	. RETAINER, spring	1
21h	801593	. SPRING	1
23	800652	FUEL TANK ASSEMBLY (includes 23a to 23f)	1
23a	802026	. BARB, hose; 1/4	1
23b	802025	. TANK, fuel	1
23c▲	801716	. LABEL, warning	1
23d	801971	. CLAMP, hose	1
23e	803881	. LINE, fuel w/squeeze bulb	1
23f	802907	. CONNECTOR, fuel	1
24	803925	HANDLE	1
25	803298	SCREW, cap, hex hd;5/16–18 x 3 1/2	1
26	189919	PLATE, designation	1
27	290011	LABEL, artwork (not shown)	1
28	802016	BRACKET, rail stiffener	1
29	801522	SCREW, cap, hex hd	2
30	804500	LABEL, cart	1
31	801012	GROMMET, rubber	5
33	805543	TIP, spray, Q-type; 0004 (0° – red)	1
	805544	TIP, spray, Q-type; 1504 (15° – yellow)	1
	805545	TIP, spray, Q-type; 2504 (25° – green)	1
	805546	TIP, spray, Q-type; 4004 (40° – white)	1
34	805634	TIP, spray, chemical injector	1
37	800665	ENGINE ASSY (partial breakdown, 37a to 37h)	
37a▲	290013	. LABEL, warning (not shown)	1
37b	803884	. ENGINE, 16 hp, Briggs & Stratton® Vanguard™ OHC	1
37c	802908	. CONNECTOR, fuel	1
37d	801919	. BRACKET, fuel connector	1
37e	801971	. CLAMP, hose	2
37f	801629	. LINE, fuel	1
37g	801945	. CABLE, battery; 12 in. (305 mm)	1
37h	801946	. CABLE, battery; 24 in. (610 mm)	1
39*	803515	LABEL, unloader; 280 bar, 28 MPa (4000 psi)	1
40*	803516	COVER, unloader	1
41	800375	HOSE ASSY (includes 41a to 41c)	1
41a	804474	. HOSE, high pressure; 3/8 x 50 ft (15 m)	1
41b	801569	. QUICK COUPLER, female, sst; 3/8	1
41c	801568	. QUICK COUPLER, male; 3/8	1
43*	801568	QUICK COUPLER, male; 3/8	1
44	804468	GUN & WAND ASSEMBLY (includes 44a to 44h)	
44a	801009	. QUICK COUPLER, female; 1/4	1
44b	801957	. SLEEVE, safety; 18 in.	1
44c	802851	. HANDLE, tee	1
44d	801134	. WAND, 32 in. (815 mm)	1
44e	804499	. GUN, spray (see manual 308511)	1
44f	156849	. NIPPLE, hex 3/8	1
44g	804483	. QUICK COUPLER, female, sst; 3/8	1
44h	154594	. O-ring	1
45	111040	NUT, lock; 5/16–18	13
46	804356	INSULATOR, vibration	1
47	804495	LABEL, belt guard	1
48	804376	SCREW, hex hd	1
49	803944	SHEAVE, pump	1
50	801898	HUB, engine	1
51	801135	HUB, pump	1
52	801959	TERMINAL PROTECTOR, black	1
54	803077	LABEL, battery	1
55	801954	BATTERY, 12 volt, 30 Amp	1
56	100527	WASHER, flat; 1/4	4
57	100016	WASHER, lock; 1/4	4
58	100015	NUT, hex; 1/4–20	3
59	107139	BOLT, carriage; 1/4–20 x 1	1
61	801958	TERMINAL PROTECTOR, red	1
62	803531	BASEPLATE, belt guard	1
63	802127	BOLT, hex hd; 5/16–18 x 1.75	2
64	107069	BRACKET, battery	1
78	802275	BOLT, hex hd; 5/16–18 x 1.5	2
82*	801526	BRACKET, mounting	2
83*	801523	NIPPLE, 1/2–14 x 2.0	1
84*	801622	CROSS, 1/2 npt	1
85*	801111	NUT, adapter	1
86*	801110	ADAPTER, garden hose	1
87*	804051	FILTER, inlet	1
88*	402278	PLUG, threaded, sq hd	1
89*	804481	HOSE, bypass	1
90*	112027	FITTING, nipple	2
91*	802534	ADAPTER, 1/2 npt x 1/2 npsm	1
92*	800427	VALVE, unloader	1
93*	102901	TEE, pipe	1
94*	168160	BUSHING, pipe	1
97*	800115	VALVE, thermal relief	1
99*	804582	GAUGE, pressure	1
100	801137	KEY, square; 1/4 x 2.0	1
101	107129	BOLT, carriage	1
102	100188	NUT, heavy, hex hd	1
103	100450	BOLT, hex hd; 5/16–18 x 1.0	4
104*	101754	PLUG, pipe	1
105	100133	WASHER, lock; 3/8	4
106	100086	WASHER, plain	1
107	108050	WASHER, lock, spring	1
109*+	804388	INJECTOR, chemical	1
110*	804275	TUBE, chemical injector	1
111*	801683	STRAINER, chemical injector	1
130*	803517	LABEL, “Prevent Freezing”	1
131	195408	LABEL, identification	1
150*	803508	PUMP ASSEMBLY (see page 14)	1

* *These parts are shown on page 20.*

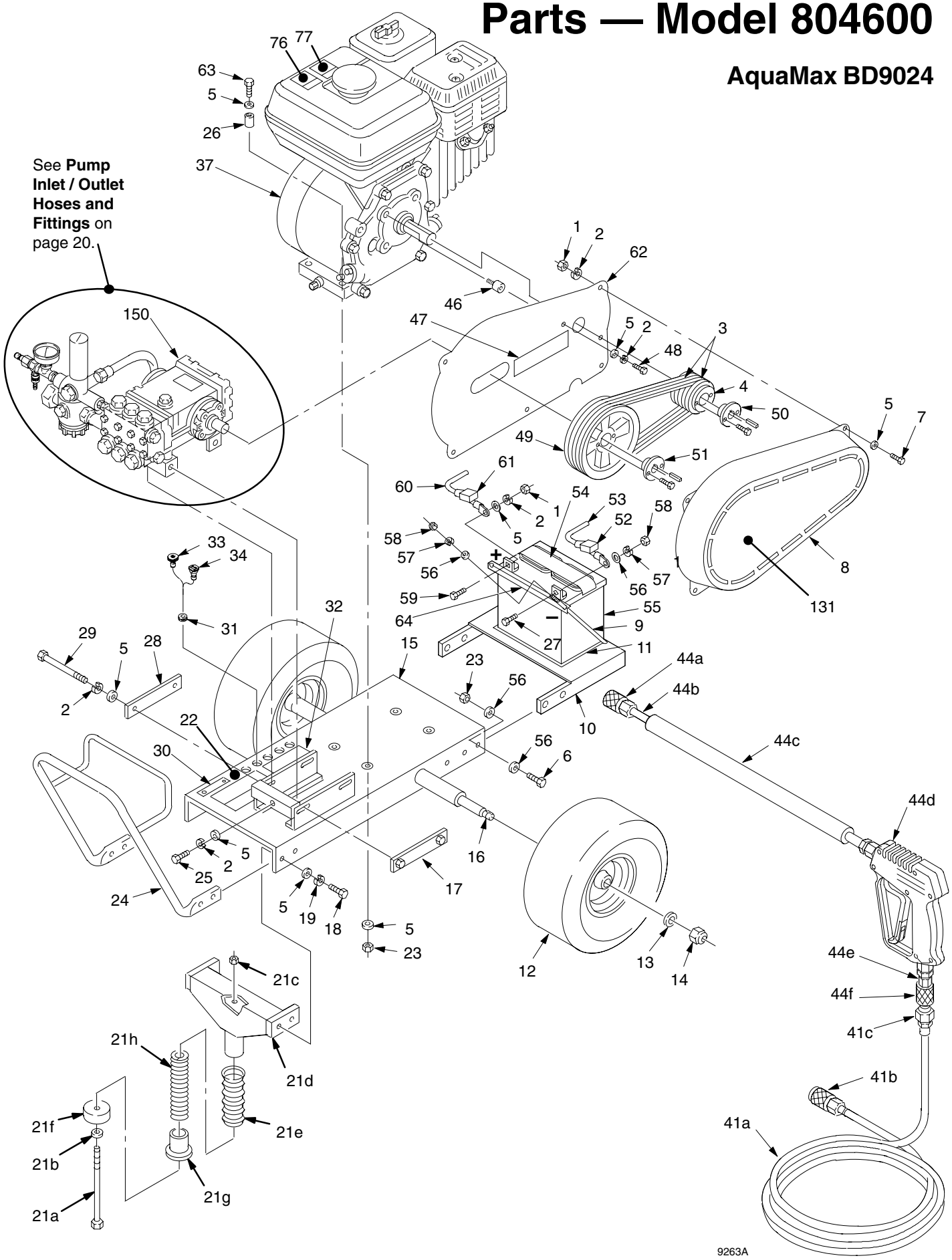
▲ *Extra warning labels are available free of charge.*

\+ *Injector Repair Kit 244351.*

NOTE: Repair Kit 244351 is not the same as Repair Kit 244350.

Parts — Model 804600

AquaMax BD9024



Parts — Model 804600

AquaMax BD9024

USE ONLY GENUINE GRACO PARTS AND ACCESSORIES

Ref No.	Part No.	Description	Qty
1	100188	NUT, hex; 5/16–18	1
2*	100214	WASHER, lock; 5/16	5
3	803945	BELT, drive	2
4	803800	SHEAVE, engine	1
5	100023	WASHER, flat; 5/16	4
6	100450	SCREW, cap, hex hd; 5/16–18 x 1	4
7	110963	SCREW, flange, hex hd	5
8	803926	BELT GUARD	1
9	803525	BOLT, battery	2
10	804282	BRACKET, battery	1
11	801972	PAD, battery	1
12	801550	WHEEL & TIRE ASSEMBLY	2
13	801612	WASHER, flat; 1/2	2
14	801020	NUT, lock; 1/2–13	2
15	800676	CART	1
16	801556	AXLE	1
17	800678	BRACKET, rail stiffener	1
18	801546	SCREW, cap, hex hd; 3/8–16 x 1–1/4	4
19	100133	WASHER, lock; 3/8	4
20	290011	LABEL, artwork (not shown)	1
21	800160	FRONT LEG ASSEMBLY (includes 21a to 21h)	
21a	801531	. SCREW, Cap, Hex hd; 3/8–16 x 7	1
21b	100132	. WASHER, flat	1
21c	101566	. NUT, lock	1
21d	801537	. LEG, front	1
21e	801506	. BOOT	1
21f	801504	. BUMPER, rubber	1
21g	801505	. RETAINER, spring	1
21h	801593	. SPRING	1
22	189919	PLATE, designation	1
23	111040	NUT, lock; 5/16–18	13
24	803925	HANDLE	1
25	803298	SCREW, cap, hex hd; 5/16–18 x 3–1/2	1
26	804382	BUSHING, sleeve	4
27	107139	BOLT, carriage; 1/4–20 x 1	1
28	802016	BRACKET, rail stiffener	1
29	801522	SCREW, cap, hex hd	2
30	804500	LABEL, cart	1
31	801012	GROMMET, rubber	5
33	805547	TIP, spray, Q-type; 00045 (0° – red)	1
	805548	TIP, spray, Q-type; 15045 (15° – yellow)	1
	805549	TIP, spray, Q-type; 25045 (25° – green)	1
	805550	TIP, spray, Q-type; 40045 (40° – white)	1
34	805634	TIP, spray, chemical injector	1
37	803967	ENGINE, 13 hp, Honda™ OHV	1
39*	803902	LABEL, unloader; 240 bar, 24 MPa (3500 psi)	1
40*	803516	COVER, unloader	1
41	800375	HOSE ASSY (includes 41a to 41c)	1
41a	804474	. HOSE, high pressure; 3/8 x 50 ft (15 m)	1
41b	801569	. QUICK COUPLER, female, sst; 3/8	1
41c	801568	. QUICK COUPLER, male; 3/8	1
43*	801568	QUICK COUPLER, male; 3/8	1
44	800392	GUN & WAND ASSEMBLY (includes 44a to 44f)	
44a	801009	. QUICK COUPLER, female; 1/4	1
44b	804470	. WAND, 32 in. (815 mm)	1
44c	801674	. SLEEVE, 28 in. (710 mm)	1
44d	804485	. GUN, spray (see manual 308511)	1
44e	801603	. NIPPLE, hex	1
44f	801569	. QUICK COUPLER, female; 3/8	1
46	804356	INSULATOR, vibration	1
47	804495	LABEL, belt guard	1
48	804376	SCREW, hex hd	1
49	803942	SHEAVE, pump	1
50	801898	HUB, engine	1
51	801135	HUB, pump	1
52	801959	TERMINAL PROTECTOR, black	1
53	801945	CABLE, battery; 12 in. (305 mm)	1
54	803077	LABEL, battery	1
55	801954	BATTERY, 12 volt, 30 amp	1
56	100527	WASHER, flat; 1/4	23
57	100016	WASHER, lock; 1/4	3
58	100015	NUT, hex; 1/4–20	3
59	107129	BOLT, carriage	1
60	801946	CABLE, battery; 24 in. (610 mm)	1
61	801958	TERMINAL PROTECTOR, red	1
62	803531	BASEPLATE, belt guard	1
63	802127	BOLT, hex hd; 5/16–18 x 1.75	4
64	107069	BRACKET, battery	1
65★	108868	CLAMP, wire	1
66★	108842	SCREW, cap, hex hd	1
67★	108050	WASHER, lock, spring	1
76	802363	LABEL, caution	1
77▲	290013	LABEL, warning	1
82*	801526	BRACKET, mounting	2
83*	801523	NIPPLE, 1/2–14 x 2.0	1
84*	801622	CROSS, 1/2 npt	1
85*	801111	NUT, adapter	1
86*	801110	ADAPTER, garden hose	1
87*	804051	FILTER, inlet	1
88*	402278	PLUG, threaded, sq hd	1
89*	804481	HOSE, bypass	1
90*	112027	FITTING, nipple	2
91*	802534	ADAPTER, 1/2 npt x 1/2 npsm	1
92*	803513	VALVE, unloader	1
93*	102901	TEE, pipe	1
94*	168160	BUSHING, pipe	1
97*	800115	VALVE, thermal relief	1
99*	804582	GAUGE, pressure	1
104*	101754	PLUG, pipe	1
109*+	804388	INJECTOR, chemical	1
110*	804275	TUBE, chemical injector	1
111*	801683	STRAINER, chemical injector	1
130*	803517	LABEL, “Prevent Freezing”	1
131	195409	LABEL, identification	1
150*	803508	PUMP ASSY (see page 14)	1

* *These parts are shown on page 20.*

★ *These starter wire fasteners are not shown, and the terminal screw is included with the engine.*

▲ *Extra warning labels are available free of charge.*

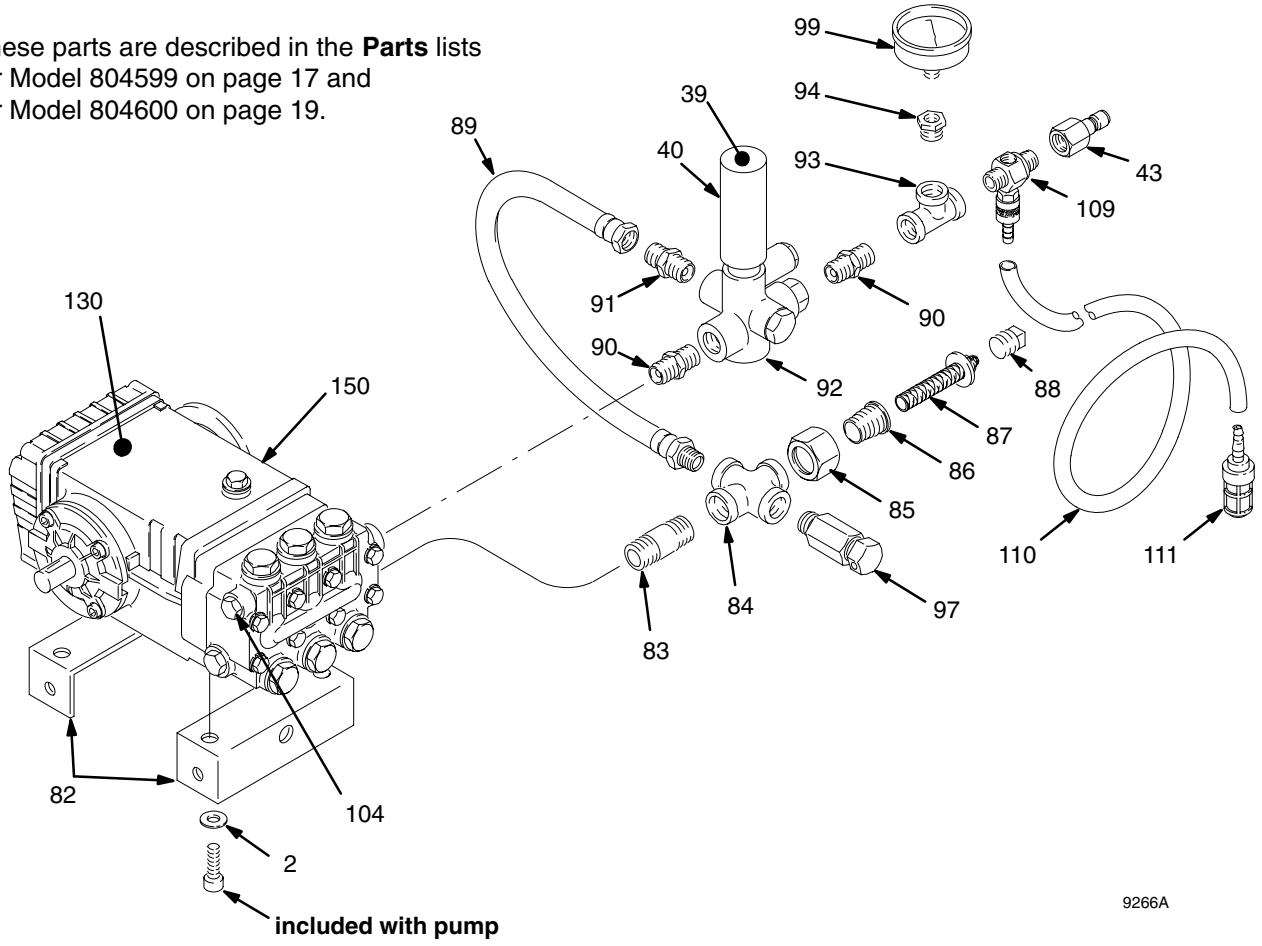
\+ *Injector Repair Kit 244351.*

NOTE: Injector Repair Kit 244351 is not the same as Injector Repair Kit 244350.

Pump Inlet / Outlet Hoses and Fittings

As configured on Model 804599, AquaMax BD9268 and Model 804600, AquaMax BD9024

These parts are described in the **Parts** lists for Model 804599 on page 17 and for Model 804600 on page 19.



Technical Data

	Model 804599 (AquaMax BD9628)	Model 804600 (AquaMax BD9024)
Engine (4 cycle, air cooled)	16-hp Briggs & Stratton® Vanguard™ OHV	13-hp Honda™ OHV
Battery	12 Volt, 30A, 250 CCA	12 Volt, 30A, 250 CCA
Gasoline tank capacity	23 L (6 gal)	7.6 L (2 gal)
Water pump maximum working pressure	280 bar, 28 MPa (4000 psi)	240 bar, 24 MPa (3500 psi)
Water pump maximum flow	960 liters/hr (4.3 gpm)	900 liters/hr (4 gpm)
Inlet hose connection	3/4-in. garden hose (f)	3/4-in. garden hose (f)
Weight	116 kg (255 lb)	116 kg (255 lb)
Dimensions		
Length	1245 mm (49 in.)	1245 mm (49 in.)
Width	762 mm (30 in.)	762 mm (30 in.)
Height	673 mm (26.5 in.)	673 mm (26.5 in.)
Maximum inlet water temperature	70° C (160° F)	70° C (160° F)
Sound data (measured per ISO 3744)		
Sound pressure level	91.7 dB(A)	93.3 dB(A)
Sound power level	106.3 dB(A)	107.9 dB(A)
Wetted Parts		
High-pressure hose	acrylonitrile and Buna–N cover and tube	
Bypass hose	synthetic yarn and EPDM	
Pressure washer (including fittings)	anodized aluminum; aluminum or bronze alloys; brass copper; Nylon-PTFE® composite; ceramic; Buna–N; cotton phenolic; 303, 304, and 316 stainless steel; polymide–12 thermoplastic; PTFE®; carbon steel; zinc plate with or without yellow chromate	
	Briggs & Stratton® is a registered trademark of the Briggs & Stratton Motor Corporation.	
	Vanguard™ is a trademark of the Briggs & Stratton Motor Corporation.	
	Honda™ is a trademark of the Honda Corporation.	
	PTFE®	

Graco 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

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

ADDITIONAL WARRANTY COVERAGE

Graco does provide extended warranty and wear warranty for products described in the "Graco Contractor Equipment W arranty Program".

Graco Phone Number

TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you:
1–800–690–2894 Toll Free

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

Sales Offices: Minneapolis, Detroit
International Offices: Belgium, Korea, Hong Kong, Japan

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440–1441
www.graco.com

PRINTED IN USA 309017 June 1999, Revised October 2000