




# OWNER'S MANUAL

## 824111

Rev C



**INSTRUCTIONS**

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

## Pressure Washer

### Model 824101, Series A

2030 Pressure Washer on Upright cart with hose and gun

*2400 psi (165 bar, 16.5 MPa ) Maximum Working Pressure*

### Model 824102, Series A

2835 Pressure Washer on Upright cart with hose and gun

*3200 psi (221 bar, 22.1 MPa ) Maximum Working Pressure*

### Model 824103, Series A

3040 Pressure Washer on Upright cart with hose and gun

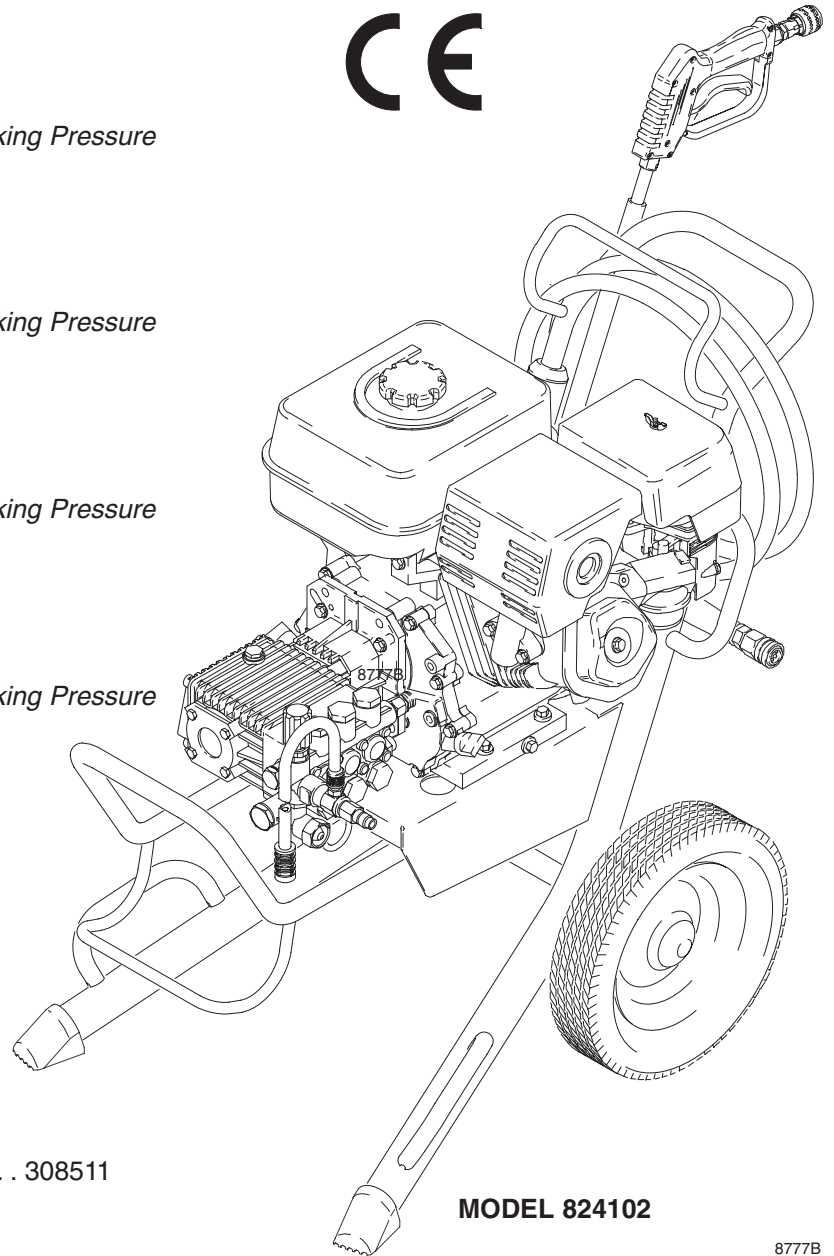
*3400 psi (234 bar, 23.4 MPa ) Maximum Working Pressure*

### Model 824104 Series A

3340 Pressure Washer on Upright cart with hose and gun

*3700 psi (255 bar, 25.5 MPa ) Maximum Working Pressure*

U.S. PATENT NO.  
PATENTED 1983, CANADA  
AND OTHER PATENTS PENDING



## Related Manuals

Spray Gun ..... 308511

**MODEL 824102**

8777B

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## Warning Symbol



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

## Caution Symbol



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 may 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



## HAZARDOUS FLUIDS

Improper handling of hazardous fluids can cause serious injury, even 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 the fluid 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 may 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 the Technical Data.
- Do not alter throttle setting.

# Installation

## Typical Installation – Pressure Washer

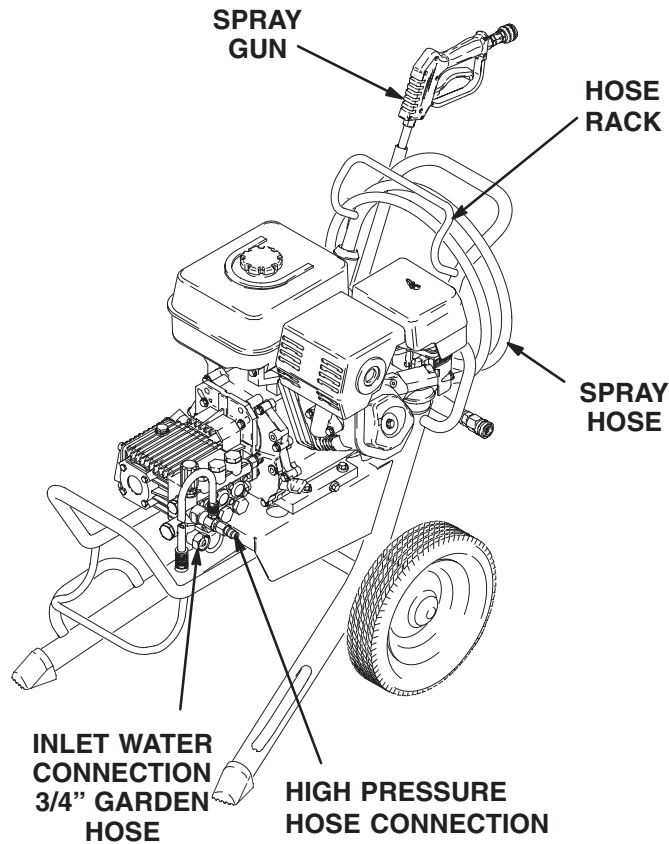


Fig. 1

8777B

### Check for Shipping Damage

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

### Set Up

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 may affect sprayer performance, and chemical injector performance, if used.

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

### Connect to Water Supply

#### **⚠ CAUTION**

Before attaching to the water supply, check your local plumbing code regarding cross-connection to the water supply. If required, a backflow preventer may be installed.

If inlet water pressure is over 60 psi (4.1 bar), a regulating water valve must be installed at the garden hose connection.

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

Connect a hose with at least a 3/4 inch (19 mm) ID from the water supply to the unit's 3/4 inch 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, inside back cover).

# Operation

## Pressure Relief Procedure

### WARNING



#### INJECTION HAZARD

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. 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 for more than 10 minutes,
- check or service any of the system equipment,
- or install or clean the spray nozzle.

## Pressure Relief Procedure

1. Engage the trigger safety latch.
2. Turn the sprayer off.
3. Remove the ignition cable from the spark plug.
4. Shut off the water supply.
5. Disengage the trigger safety latch and trigger the gun to relieve pressure, and then engage the trigger safety latch again.
6. *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 completely. Now clear the tip or hose.

## Startup

Always use this start-up procedure to ensure that the unit is started safely and properly.

1. Check 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 both the oil and the fuel levels. Check the oil level each time the unit is refueled.

2. Check fuel level.

### WARNING



#### FIRE HAZARD

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

### 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.

# Operation

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 switch in the “on” position and put the throttle in the “run” position.

## CAUTION

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

## CAUTION

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

6. Start the engine.

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

If the engine is cold, completely close the engine choke. Grasp the starter rope, brace one foot on the pressure washer chassis and pull rope rapidly and firmly. Continue holding the rope as it returns. Pull and return the rope until the engine starts. In cool weather, the choke may have to be kept closed for 10 to 30 seconds before opening it to keep the engine running. Otherwise, open the choke as soon as the engine starts.

If the engine is warm, leave the choke open, or just partly close it. Start the engine as described in the preceding paragraph. When it starts, be sure to open the choke completely.

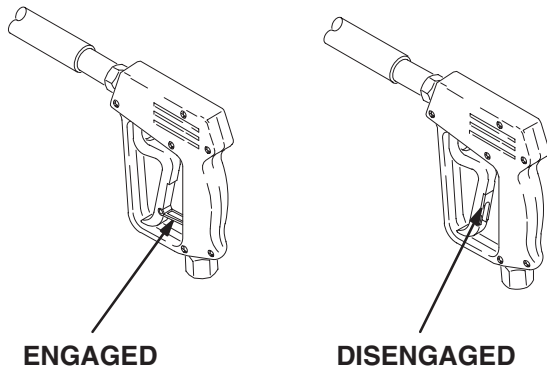
7. Always engage the gun’s trigger safety latch whenever you stop spraying, even for a moment, to reduce the risk of fluid injection or splashing in the eyes or on the skin if the gun is bumped or triggered accidentally.
8. Always observe the following **CAUTIONS** to avoid costly damage to the pressure washer.
9. See the sandblaster kit manual for detailed cleaning information if this accessory is used.

# Operation

## Trigger Safety Latch

### **⚠ WARNING**

To reduce the risk of serious bodily injury, including fluid injection, splashing in the eyes or on the skin, always engage the trigger safety latch whenever spraying stops, 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 when engaging it or it cannot prevent the gun from being triggered. See Figure 2.



TRIGGER SAFETY LATCH

04612

Figure 2

## Chemical Injector Operation

### **⚠ WARNING**

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

1. Follow the **Pressure Relief Procedure**.
2. Insert the chemical filter (attached with clear tubing to the chemical injector) into the container of chemical.
3. Install the black large orifice chemical tip (see **Installing and Changing Tips**).

This 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. The flow rate of the chemical may be regulated by turning the chemical adjustment knob on the injector. Maximum chemical flow is a full two turns counter-clockwise from the closed (clockwise) position.

## Installing and Changing Spray Tips

### **⚠ WARNING**

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

1. Follow the **Pressure Relief Procedure**.
2. Point the gun and wand away from yourself and anyone else.
3. Spray tips have a 4- or 5-digit number on them. The first two digits are the spray angle. Select the spray tip appropriate for your application.

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

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

4. Without holding your hand over the spray tip (A), pull back the quick coupler ring (B). Remove the current tip and/or install a different one, and then push back the ring. See Figure 3.
5. Pull on the tip to be sure the tip is secure before starting to spray again.
6. Tip holding holes are provided on the chassis.

### **⚠ 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.

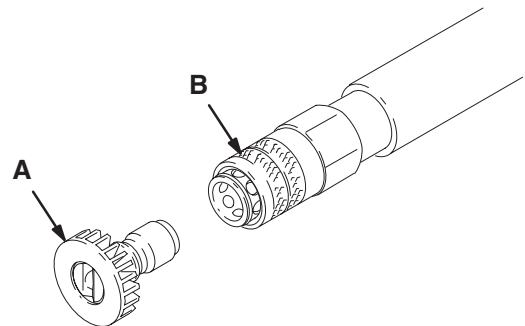


Figure 3

04929

# Operation

## Shutdown, Flushing and Storage

**NOTE:** An anti-freeze flush kit 802327 is available to make flushing easier.

### CAUTION

If water does freeze 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 may crack the ceramic plungers!

1. If the pressure washer will be exposed to freezing temperatures, drain all water out of the pump. If it must be stored in freezing temperatures, flush the unit with a 50% anti-freeze solution. Relieve pressure. Flush the pressure washer before using it again to remove the anti-freeze.
2. Before long-term (overnight) storage or transporting of unit, disconnect the water supply, and turn off the fuel supply valve.
3. After each use, wipe all surfaces of the pressure washer with a clean, damp cloth.
4. Perform the appropriate maintenance. See maintenance chart.

## Maintenance

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

There is a break-in period for the engine and pump. After changing the oil in these components following their respective break-in periods, the interval between required changes is longer.

If the unit is operating in dusty conditions, these maintenance checks should be made more often.

### WARNING

To reduce the risk of serious bodily injury, including fluid injection, splashing in the eyes or on the skin or injury from moving parts, always follow the **Pressure Relief Procedure** on page 5 before proceeding.

Interval	What to do
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.
After first 25 hours of operation	Re-torque exhaust manifold nuts to 20 ft-lb (27 N•m). Do not over tighten.
Each 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.
Each 100 hours of operation or 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. Re-torque exhaust manifold nuts to 20 ft-lb (27 N•m). Do not over tighten.
Each 500 hours of operation or 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 proceeding.

Problem	Cause	Solution
Engine will not start or is hard to start	No gasoline in fuel tank or carburetor.  Low oil. Start/Stop switch in Stop position. Water in gasoline or old fuel.  Choked improperly. Flooded engine.  Dirty air cleaner filter. Spark plug dirty, wrong gap or wrong type. Spray gun closed.	Fill the tank with gasoline, open fuel shut off valve. Check fuel line and carburetor.  Add to proper level. Move switch to start position. Drain fuel tank and carburetor. Use new fuel and dry spark plug. Open choke and pull engine several times to clear out gas. Use a dry spark plug. Remove and clean. Clean, adjust the gap or replace.  Trigger spray gun while spraying.
Engine misses or lacks power	Partially plugged air cleaner filter.  Spark plug dirty, wrong gap or wrong plug type.	Remove and clean.  Clean, adjust the spark plug gap or replace.
Low pressure and/or pump runs rough	Worn or wrong size tip.  Inlet filter clogged. Worn packings, abrasives in water or natural wear. Inadequate water supply. Fouled or dirty inlet or discharge valves.  Restricted inlet. Worn inlet or discharge valves. Leaking high pressure hose.	Replace with tip of proper size.  Clean. Check more frequently. Check filter. Replace packings. See PUMP SERVICE, page 13. Check water flow rate to pump. Clean inlet and discharge valve assemblies. Check filter. Check garden hose, may be collapsed or kinked. Replace worn valves. See PUMP SERVICE, page 13. Replace high pressure hose.
Water leakage from under pump manifold	Worn packings.	Install new packings. See PUMP SERVICE, page 13..
Water on oil side of pump	Humid air condensing inside crankcase.  Worn packings. Oil seals leaking.	Change oil as specified in Maintenance, page 8.  Install new packings. See PUMP SERVICE, page 13. Install new oil seals. See PUMP SERVICE, page 13.

# Troubleshooting

Problem	Cause	Solution
Frequent or premature failure of the packings	<p>Scored, damaged or worn plungers.</p> <p>Abrasive material in the fluid being pumped.</p> <p>Inlet water temperature too high.</p> <p>Over pressurizing pump.</p> <p>Excessive pressure due to partially plugged or damaged tip.</p> <p>Pump running too long without spraying.</p> <p>Running pump dry.</p>	<p>Install new plungers. See PUMP SERVICE, page 13.</p> <p>Install proper filtration on pump inlet plumbing.</p> <p>Check water temperature; may not exceed 160°F(70°C).</p> <p>Do not modify any factory-set adjustments. See EQUIPMENT MISUSE HAZARD on page 3.</p> <p>Clean or replace tip. See Installing and Changing Spray Tips on page 7.</p> <p>Never run pump more than 10 minutes without spraying.</p> <p>Do not run pump without water.</p>
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, page 13.

# 824101 Pump Service

## WARNING

To reduce the risk of serious bodily injury, including fluid injection, splashing in the eyes or on the skin or injury from moving parts, always follow the **Pressure Relief Procedure** on page 5 before proceeding.

**NOTE:** The following metric wrenches are needed: 5 mm, 13 mm and 22 mm. Repair kits are available. Refer to the individual repair sections and the pump parts page for more details. For the best results, use all parts in the kits.

**NOTE:** There is a tool kit to aid in servicing the pump. Tool kit 800271 includes tools to aid in the removal of packing retainers.

### Valves

**NOTE:** For a set of six valves, order 801472.

1. Remove the hex plug from the manifold using a 22 mm socket.
2. Examine the o-ring under the hex plug and replace it if it is cut or distorted.
3. Remove the valve assembly from the cavity; the assembly may come apart.
4. Install the new valve. Install the o-ring and hex plug; torque to 33 ft-lb (45 N·m).

**NOTE:** Retorque the plug after 5 hours of operation.

### Pumping Section

1. Remove the eight capscrews and lockwashers from the manifold using a 5 mm wrench.

2. Carefully separate the manifold from the crankcase.

**NOTE:** It may be necessary to tap the manifold lightly with a soft mallet to loosen.

## CAUTION

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

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

### Servicing the Plungers

**NOTE:** Plunger repair kit (page 15) is available to replace retainers, o-rings, washers and backup rings for three cylinders.

1. Loosen the plunger retaining nut five to six turns, using a 13 mm wrench. Push the plunger towards the crankcase to separate the plunger and retaining screw.
2. Remove the nut from the plunger and examine the o-ring, backup ring and copper bearing/gasket washer. Replace these parts, if necessary, using kit 801474.
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. Otherwise, DO NOT remove these seals as they cannot be reused. An oil seal kit is available to replace the seals.
5. Lightly grease the flinger and oil seal, if it is being replaced and replace them on the plunger shaft. Then install the plunger.

# 824101 Pump Service

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 nut through the plunger. Torque to 11 ft-lb (15 N·m).

**NOTE:** If you plan to replace the packings, refer to Servicing the V-Packings.

7. Lubricate the outside of each plunger. Slide the manifold onto the crankcase, being careful not to damage the seals.
8. Install the capscrews and washers finger-tight. Torque the screws to 8.8 ft-lb (12 N·m) following the tightening pattern (Figure 4). Uneven tightening may cause the manifold to bind or jam.

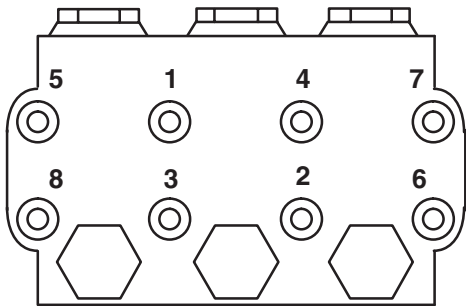


Figure 4

## Servicing the V-Packings

**NOTE:** There are two types of packing kits: one is packings only, the other includes the packings, rings and retainers.

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 it if it is 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.

# 824102, 824103, 824104 Pump Service

## WARNING

To reduce the risk of serious bodily injury, including fluid injection, splashing in the eyes or on the skin or injury from moving parts, always follow the **Pressure Relief Procedure** on page 5 before proceeding.

**NOTE:** The following metric wrenches are needed: 6 mm, 13 mm and 27 mm. Repair kits are available. Refer to the individual repair sections and the pump parts page for more details. For the best results, use all parts in the kits.

**NOTE:** There is a tool kits to aid in servicing the pump. Tool kit 800271 includes tools to aid in the removal of packing retainers.

### Valves

**NOTE:** For a set of six valves, order 801472.

1. Remove the hex plug from the manifold using a 27 mm socket.
2. Examine the o-ring under the hex plug and replace it if it is cut or distorted.
3. Remove the valve assembly from the cavity; the assembly may come apart.
4. Install the new valve. Install the o-ring and hex plug; torque to 73 ft-lb (99 N·m).

**NOTE:** Retorque the plug after 5 hours of operation.

### Pumping Section

1. Remove the eight capscrews and lockwashers from the manifold using a 6 mm wrench.

2. Carefully separate the manifold from the crankcase.

**NOTE:** It may be necessary to tap the manifold lightly with a soft mallet to loosen.

## CAUTION

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

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

### Servicing the Plungers

**NOTE:** Plunger repair kit (page 15) is available to replace retainers, o-rings, washers and backup rings for three cylinders.

1. Loosen the plunger retaining nut five to six turns, using a 13 mm wrench. Push the plunger towards the crankcase to separate the plunger and retaining screw.
2. Remove the nut from the plunger and examine the o-ring, backup ring and copper bearing/gasket washer. Replace these parts, if necessary, using kit 801474.
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. Otherwise, DO NOT remove these seals as they cannot be reused. An oil seal kit is available to replace the seals.
5. Lightly grease the flinger and oil seal, if it is being replaced and replace them on the plunger shaft. Then install the plunger.

# 824102, 824103, 824104 Pump Service

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 nut through the plunger. Torque to 14.4 ft-lb (19.5 N·m).

**NOTE:** If you plan to replace the packings, refer to Servicing the V-Packings.

7. Lubricate the outside of each plunger. Slide the manifold onto the crankcase, being careful not to damage the seals.
8. Install the capscrews and washers finger-tight. Torque the screws to 22 ft-lb (30 N·m) following the tightening pattern (Fig. 4). Uneven tightening may cause the manifold to bind or jam.

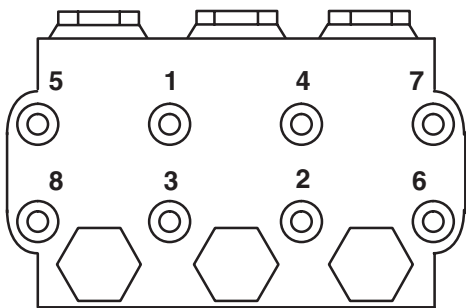


Figure 4

## Servicing the V-Packings

**NOTE:** There are two types of packing kits: one is packings only, the other includes the packings, rings and retainers.

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 it if it is 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.

# Accessories

## Anti-freeze Flush Kit 802327

For flushing system with 50% anti-freeze solution prior to transporting or storing pressure washer in below freezing temperatures.

## Pump Repair Kits

Repair Kit			Description	Qty.	Entire Pump	One Cyl
Model 824101	Model s 824102 and 824103	Model 824104				
804033 Oil Seal	801658 Oil Seal	801658 Oil Seal	SEAL, Oil	3	*	
801472 Valve Assembly	804402 Valve Assembly	804402 Valve Assembly	O-RING SEAT, Valve VALVE SPRING CAGE, Valve	6 6 6 6 6	*	
804034 Valve Cap	804403 Valve Cap	804403 Valve Cap	O-RING CAP	6 6	*	
804036 Packing Assembly	804404 Packing Assembly	114793 Packing Assembly	O-RING RETAINER, Packing RING, Intermediate PACKING PACKING RING, Head	1 1 1 2 2		*
801474 Plunger Assembly	243430 Plunger Assembly	241325 Plunger Assembly	WASHER O-RING BACK UP SCREWS, retaining FLINGER	3 3 3 3 3	*	
804011 Plunger	804415 Plunger	804415 Plunger	Plunger	1		*

\* Designates whether kit contains parts for entire pump or for only one cylinder.

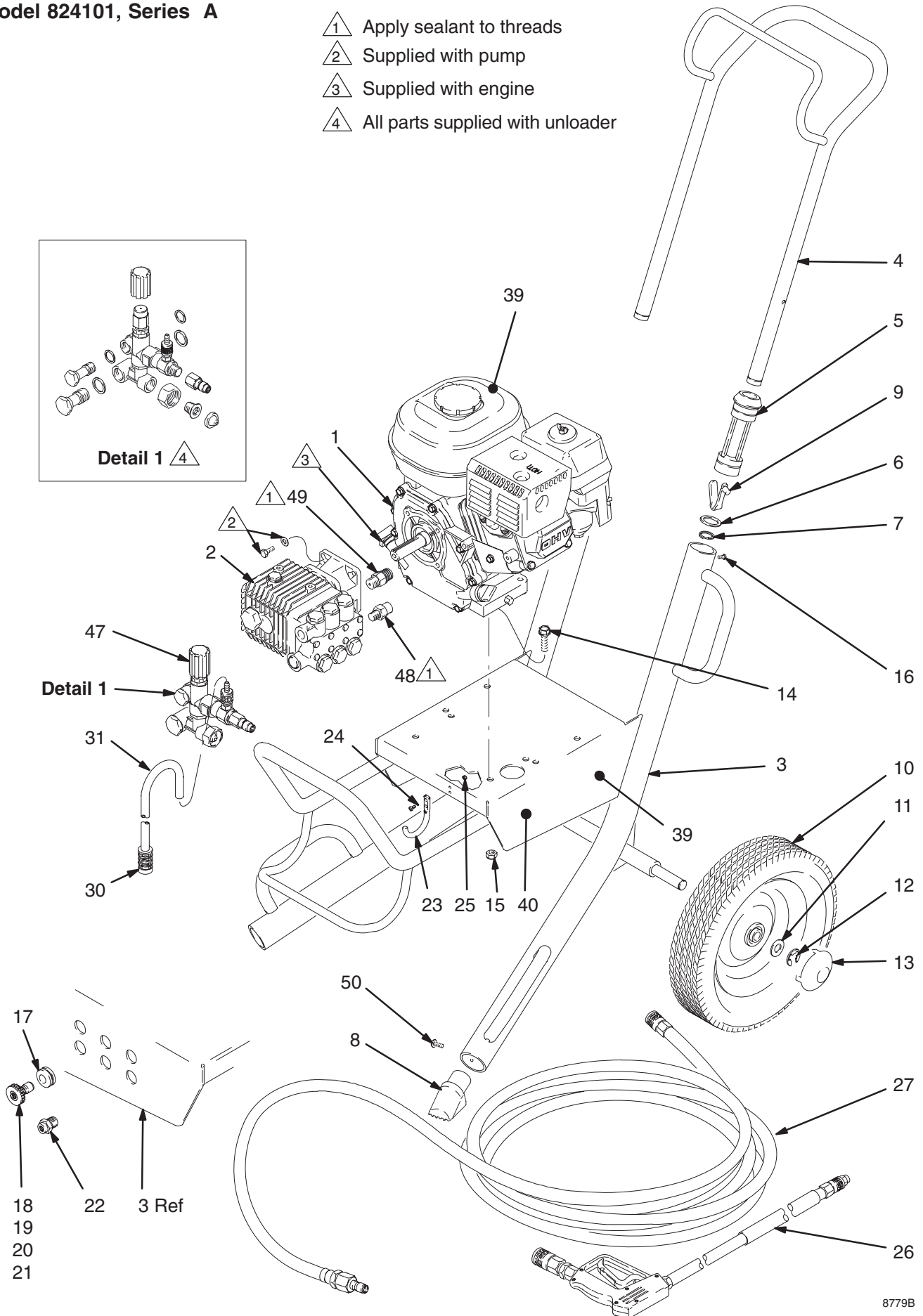
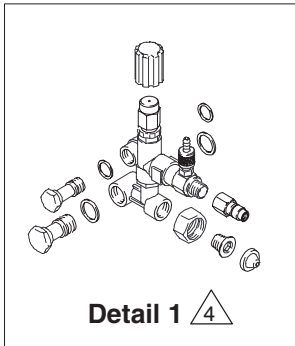
# Technical Data

	Model 824101	Model 824102	Model 824103	Model 824104
Engine (4 cycle, air cooled)	5.5 HP Honda OHV	9 HP Honda OHV	11 HP Honda OHV	13 HP Honda OHV
Gasoline Tank Capacity	3.8 quarts (3.6 liter)	6.2 quarts (6.1 liter)	6.9 quarts (6.5 liter)	6.9 quarts (6.5 liter)
Water Pump Maximum Working Pressure	2400 psi (165 bar)	3200 psi (193 bar)	3400 psi (234 bar)	3700 psi (255 bar)
Water Pump Maximum Flow	3 gpm (11 lpm)	3.5 gpm (13 lpm)	4 gpm (15 lpm)	4 gpm (15 lpm)
Inlet Hose Connection	3/4" garden hose (f)	3/4" garden hose (f)	3/4" garden hose (f)	3/4" garden hose (f)
Weight (without gun and hose)	103 lb (47 kg)	142 lb (64 kg)	151 lb (69 kg)	151 lb (69 kg)
Dimensions				
Length	36.5" (927mm)	36.5" (927mm)	36.5" (927mm)	36.5" (927mm)
Width	22" (533mm)	22" (533mm)	22" (533mm)	22" (533mm)
Height	31.5" (788mm)	31.5" (788mm)	32.5" (813mm)	32.5" (813mm)
Maximum Inlet Water Temperature	160°F (70°C)	160°F (70°C)	160°F (70°C)	160°F (70°C)
Sound Data in dB(A)				
Sound Pressure	93.1	94.3	95.8	97.4
Sound Level	103.5	104.7	106.3	111.6
Wetted Parts	Acrylonitrile and Buna-N cover and tube Synthetic yarn and EPDM Anodized aluminum, Aluminum or bronze alloys, Brass Copper, Nylon-PTFE® composite, Ceramic, Buna-N, Cotton phenolic, 303, 304, and 316 Stainless steel, Polyamide-12 thermoplastic, PTFE, Carbon steel, Zinc with or without yellow chromate plate			
High Pressure Hose	PTFE			
Bypass Hose				
Pressure Washer (including fittings)				

# 2030 Pressure Washer – Parts

Model 824101, Series A

- △1 Apply sealant to threads
- △2 Supplied with pump
- △3 Supplied with engine
- △4 All parts supplied with unloader





# 2030 Pressure Washer – Parts

USE ONLY GENUINE GRACO PARTS AND ACCESSORIES

Model 824101, Series A

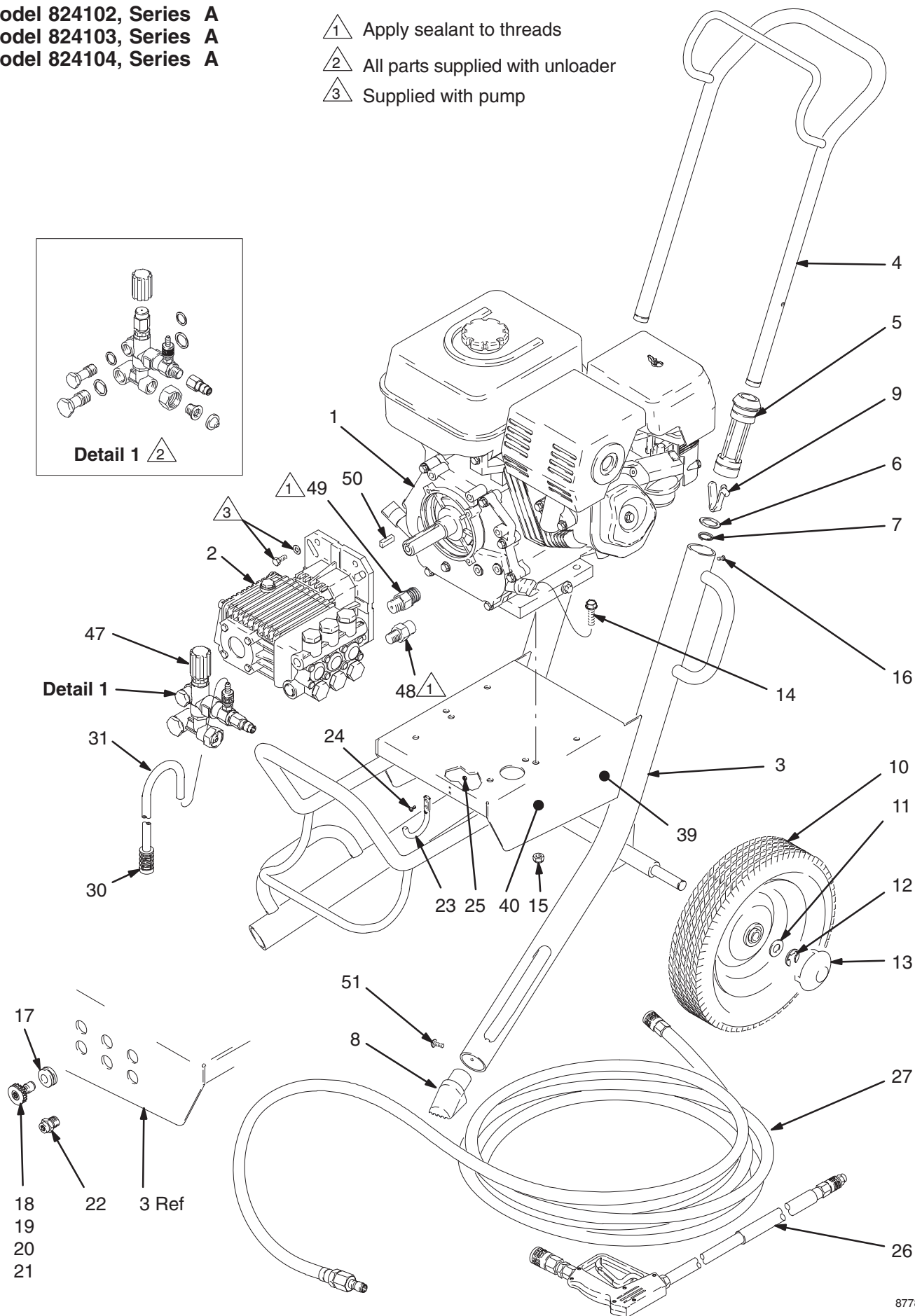
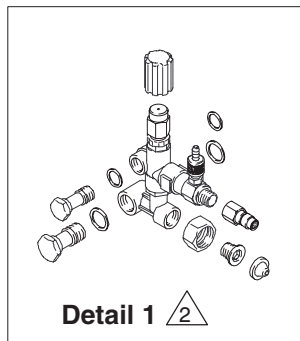
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	802264	ENGINE, 5.5 hp	1	21	805546	TIP, spray, Q-type, (40° - white), 4004	1
2	804531	PUMP ASSEMBLY	1	22	805520	TIP, spray, chemical injector, (black)	1
3	240998	FRAME, cart	1	23	114801	HOOK, pail	1
4	239998	HANDLE, cart	1	24	112380	SCREW, mach, fil hd, 1/2 in.	2
5	191084	SLEEVE, cart	2	25	109466	LOCKNUT	2
6	183350	WASHER	2	26	804381	GUN & WAND ASSEMBLY	1
7	110243	RING, retaining	2	27	804592	HOSE, high pressure 3/8 x 50 ft	1
8	115481	FOOT, cart	2	30	801683	STRAINER, chemical	1
9	112827	BUTTON, snap	2	31	194188	TUBING, chemical	1
10	179811	WHEEL, semi-pneumatic	2	39▲	290013	LABEL, danger	1
11	154636	WASHER	2	40▲	290131	LABEL, warning	1
12	101242	RING, retaining. ext	2	46	190781	TUBE, polyethylene	1
13	104811	CAP, hub	2	47	804543	KIT, unloader/injector	1
14	110837	SCREW, flange, hex hd, 5/16 in.	4	48	800742	VALVE, thermal relief	1
15	111040	NUT, lock, nylock 5/16–18 in.	4	49	804542	VALVE, relief	1
16	108795	SCREW, mach, pan hd	4	50	115496	SCREW, thread forming, pnhd	2
17	801012	GROMMET, rubber	6				
18	805543	TIP, spray, Q-type, (0° - red), 0004	1				
19	805544	TIP, spray, Q-type, (15° - yellow), 1504	1				
20	805545	TIP, spray, Q-type, (25° - green), 2504	1				

▲ Extra warning labels available free of charge.

# 2835, 3040, 3340 Pressure Washer – Parts

Model 824102, Series A  
 Model 824103, Series A  
 Model 824104, Series A

- △1 Apply sealant to threads
- △2 All parts supplied with unloader
- △3 Supplied with pump



# 2835, 3040, 3340 Pressure Washer – Parts

## USE ONLY GENUINE GRACO PARTS AND ACCESSORIES

Models 824102, Series A; 824103, Series A; 824104, Series A

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1		ENGINE	1	21		TIP, spray, Q-type, (40° - white)	
	803900	Model 824102, 9 hp	1		805546	Models 824102 and 824104 (4504)	1
	803158	Model 824103, 11 hp	1		805550	Model 824103 (45045)	1
	114703	Model 824104, 13 hp	1	22	805520	TIP, spray, chemical injector, (black)	1
2		PUMP ASSEMBLY	1	23	114801	HOOK, pail	1
	804559	Model 824102, 2835	1	24	112380	SCREW, mach, fil hd, 1/2 in.	2
	804503	Model 824103, 3040	1	25	109466	LOCKNUT	2
	114707	Model 824104, 3340	1	26	804381	GUN & WAND ASSEMBLY	1
3	240998	FRAME, cart	1	27		HOSE, high pressure 3/8 x 50 ft	
4	239998	HANDLE, cart	1		804592	Model 824102	1
5	191084	SLEEVE, cart	2		800747	Models 824103 and 824104	1
6	183350	WASHER	2	30	801683	STRAINER, chemical	1
7	110243	RING, retaining	2	31	194188	TUBING, chemical	1
8	115481	FOOT, cart	2	39▲	290013	LABEL, danger	1
9	112827	BUTTON, snap	2	40▲	290131	LABEL, warning	1
10	179811	WHEEL, semi-pneumatic	2	46	190781	TUBE, polyethylene	1
11	154636	WASHER	2	47		KIT, unloader/injector	1
12	101242	RING, retaining. ext	2		804567	Model 824102, 9 hp	1
13	104811	CAP, hub	2		804528	Model 824103, 11 hp	1
14	110837	SCREW, flange, hex hd, 5/16 in.	4		114706	Model 824104, 13 hp	1
15	111040	NUT, lock, nylock 5/16–18 in.	4	48	804397	VALVE, thermal relief	1
16	108795	SCREW, mach, pan hd	4	49		VALVE, relief	1
17	801012	GROMMET, rubber	6		804536	Model 824102, 9 hp	1
18		TIP, spray, Q-type, (0° - red)			804547	Model 824103, 11 hp	1
	805543	Models 824102 and 824104 (0004)	1		114705	Model 824104, 13 hp	1
	805547	Model 824103 (00045)	1	50	801137	KEY, square	1
19		TIP, spray, Q-type, (15° - yellow)		51	115496	SCREW, thread forming, pnhd	2
	805544	Models 824102 and 824104 (1504)	1				
	805548	Model 824103 (15045)	1				
20		TIP, spray, Q-type, (25° - green)					
	805545	Models 824102 and 824104 (2504)	1				
	805549	Model 824103 (25045)	1				

▲ Extra warning labels available free of charge.

# Sherwin-Williams Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale 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.**

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**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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## **ADDITIONAL WARRANTY COVERAGE**

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

# 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**

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**The SHERWIN-WILLIAMS COMPANY, 101 PROSPECT AVENUE, CLEVELAND, OHIO 44115**

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