INSTRUCTIONS-PARTS LIST



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



GRACC

Rev. B Supercedes Rev A and 801–645

308-513

CHEMICAL INJECTOR KIT

For injecting chemicals, such as detergents and phosphatizers, downstream from the pump.

4000 psi (280 bar) Maximum Working Pressure

804–386	For units with 4.0–5.3 gpm flowrate and 3/8" quick couplers
804–387	For units with 2.6–4.0 gpm flowrate and 3/8" quick couplers Note: Supercedes 800–117

3200 psi (220 bar) Maximum Working Pressure

800–139	For units with 2.9–4.0 gpm flowrate and 1/4" quick couplers
800–111	For units with 4.0–5.6 gpm flowrate and 1/4" quick couplers
800–425	For units with 6.6–10.8 gpm flowrate and 3/8" quick couplers





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.
- Be sure the gun trigger safety operates before spraying.
- Engage gun trigger safety when finished spraying.
- Follow **Pressure Relief Procedure** below 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.

HAZARDOUS FLUIDS

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

- Wear protective eyewear, gloves, clothing, and respirator as recommended by fluid and solvent manufacturer.
- Be sure that all chemicals used in the chemical injector are compatible with the wetted parts of the chemical injector, hose, gun, wand, and tip.

Pressure Relief Procedure

To reduce the risk of serious injury, including fluid injection and splashing in the eyes, or on the skin, always follow this procedure whenever you stop spraying for more than 10 minutes, when shutting down, and before checking or repairing any part of the system.

- 1. Engage the trigger safety latch.
- 2. Turn the sprayer off.
- 3. Remove the ignition cable from the spark plug, disconnect the air or disconnect the electricity.

- 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. Before long-term (overnight) storage or transporting of the unit, disconnect the water supply, and disconnect the fuel, electric power, or air supply.

Operation

Adjustable Nozzle

Insert the chemical filter (attached with clear tubing to the chemical injector) into the container of chemical. Turn the control ring on the adjustable nozzle clockwise. This causes a drop in pressure that actuates the chemical injector. Closing the adjustable nozzle 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 flowrate of the chemical may be regulated by turning the chemical adjustment knob on the injector. Maximum chemical flow is at a full two turns counterclockwise from the closed (clockwise) position.

WARNING



INJECTION HAZARD

Do not attempt to open or close the adjustable nozzle when the spray gun is in use. Be sure that the trigger safety

latch on the gun is in the "ON" position before adjusting to avoid serious bodily injury or fluid injection

Changeable Spray Tips

Insert the chemical filter (attached with clear tubing to the chemical injector) into the container of chemical. Install large orifice chemical tip (see Installing and Changing Spray 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 flowrate of the chemical may be regulated by turning the chemical adjustment knob on the injector. Maximum chemical flow is at a full two turns counterclockwise from the closed (clockwise) position.

Installing and Changing Spray Tips



INJECTION HAZARD

To reduce the risk of serious injury, follow the Pressure Relief Procedure warning on page 2 whenever you are instructed to relieve pressure.

- Follow the Pressure Relief Procedure. 1.
- 2. Point the gun and wand away from yourself and anyone else.
- 3. Without holding your hand over the spray tip (A), pull back the quick coupler ring (B). Remove the old tip and install a new one, and then release the ring. See Figure 1.
- 4. Be sure the tip is secure before starting to spray again.

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



Operation

Cleaning

No more than 100 feet (30 m) of spray hose may be used between the chemical injector and the spray gun when the operator is at the same level as the chemical injector. If the operator is over 25 feet above the chemical injector, no more than 50 feet (15 m) may be used.

Check the distance that you will need to hold the spray nozzle from the surface by test spraying on a scrap of similar material. For soft surfaces, such as wood, hold nozzle about 3 ft (1 m) from the surface and gradually bring it closer, checking to see if the high pressure spray is damaging the surface. Mist wet the surface with cleaning solution going from bottom to top. Let it soak briefly, then use the high pressure rinse to "chisel" off the soil, going from top to bottom. Keep the nozzle at an angle to the surface and at a distance determined to be best for the surface. If some soil remains, repeat the procedure, letting the chemical soak a little longer. Stubborn soil can be cleaned off better with a stronger, heated cleaning solution.Protect surfaces that might be damaged by the cleaning solution or high pressure spray. Rinse the solution before it dries.

Service

The chemical injector may be disassembled and cleaned if clogging occurs internally. As with any chemical injector, if the spray tip becomes clogged or if downstream restriction increases for any reason, the injector will stop drawing chemical. The restriction must be eliminated before continuing. The chemical injector can be repaired by replacing the parts supplied in the repair kit. Use repair kit 803–866 for 804–386 and 804–387; kit 803–475 for 800–139, 800–111, and 800–425.

Cleaning Chemicals and Accessories

For further information on cleaning chemicals see instruction sheet 801–965.

Chlorine bleach and other harsh chemicals will damage the internal metal parts of the injector.

General Purpose Cleaner	Four 1 gallon containers One 6 gallon container	800–185 800–106
Vehicle Wash	Four 1 gallon containers One 6 gallon container	800–187 800–108
Degreaser	Four 1 gallon containers One 6 gallon container	800–186 800–107
Rust Inhibitor	One 6 gallon container	800–110
Cleaner Phosphatizer	One 6 gallon container	800–109
Stainless Steel Spray Gun and Wand Assen	nbly	800–042
Adjustable Nozzle		800–118

Notes	

Parts Drawing

804–386 Chemical Injector Kit 804–387 Chemical Injector Kit 6 Ö 5 THE FIFT \bigcirc Ę 11*-**→**⊚ 7 ٩ - 10* 04 1 **9* ->**O (Th 8* 6 2 3 4 Cin)

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Parts List

804–386 Chemical Injector Kit 804–387 Chemical Injector Kit

Ref. No.	Part No.	Description	Qty.
1	805–634	SPRAY TIP, chemical injector, 6540	1
2	803–157	QUICK COUPLER, 3/8" female (includes 3)	1
3	156–082	O-RING, 3/8" quick coupler	1
4	804–498	QUICK COUPLER, 3/8" male	1
5	803–885	STRAINER	1
6	801–813	TUBING	1
7	804–389	CHEMICAL INJECTOR (used on 804–386) (includes 8–11, supplied in Repair Kit 803–866)	1 ir
	804–388	CHEMICAL INJECTOR (used on 804–387) (includes 8–11, supplied in Repair Kit 803–866)	1 ir

Ref. No.	Part No.	Description	Qty.
8*		SPRING	1
9*		BALL	1
10*		O-RING	1
11*		O-RING	1

* Supplied in Repair Kit 803–475

Wetted Parts: Brass, Stainless Steel, Viton, Buna-N

Parts Drawing

800–111 Chemical Injector Kit 800–139 Chemical Injector Kit 16 22 2 3 7* 5* 6) 9* Ô 10* 2 0 11* GUL 0 1 34 0 13* 19 14* 17 18

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Parts List

800–111 Chemical Injector Kit 800–139 Chemical Injector Kit

Ref.				Ref.			
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1	801–090	QUICK COUPLER, Male 1/4	1	10*		BALL, sst	1
2	150–287	ADAPTER, 3/8 (f) x 1/4 (m)	2	11*		O-RING	1
3	803–473	CHEMICAL INJECTOR	1	13*		O-RING	1
		(used on 800–139)		14*		O-RING	1
		(includes 5–14, supplied in Repa Kit 803–475)	ir	16	801–009	QUICK COUPLER, Female 1/4 (includes 22)	1
	803–486	CHEMICAL INJECTOR	1	17	801–677	TUBING, 5/16 ID x 8 ft	1
		(used on 800–111)		18	801–683	STRAINER	1
		(includes 5–14, supplied in Repa Kit 803–475)	ir	19	805–634	SPRAY TIP, chemical injector, 6540	1
5*		O-RING	1	22	154–594	O-RING	1
7* 9*		O-RING SPRING, sst	1 1	*	Supplied in I	Repair Kit 803–475	
		·		Wet	ted Parts: E	Brass, Stainless Steel, Viton, Buna	a—N

Parts Drawing

800–425 Chemical Injector Kit



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Parts List

800–425 Chemical Injector Kit

Ref.				Ref.		
No.	Part No.	Description	Qty.	No.	Part No.	Description
1	804–498	QUICK COUPLER, Male 3/8	1			
2	803–488	CHEMICAL INJECTOR	1			
		(used on 800–139)				
		(includes 4–13, supplied in Rep	oair			
		Kit 803–475)				
4*		O-RING	1			
6*		O-RING	1			
8*		SPRING, sst	1			
9*		BALL, sst	1			
10*		O-RING	1			
12*		O-RING	1			
13*		O-RING	1			
15	801–569	QUICK COUPLER, Female 3/8	3 1			
		(includes 21)				
16	801–677	TUBING, 5/16 ID x 8 ft	1			
17	801–683	STRAINER	1			
18	805–634	SPRAY TIP, chemical injector,	1			
		6540				
21	156–082	O-RING	1			

* Supplied in Repair Kit 803–475

Wetted Parts: Brass, Stainless Steel, Viton, Buna-N

The Graco Warranty and Disclaimers

WARRANTY

Graco warrants all equipment manufactured by it 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. As purchaser's sole remedy for breach of this warranty, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment proven 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, 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 with Graco equipment of 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 claim. 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.

DISCLAIMERS AND LIMITATIONS

The terms of this warranty constitute purchaser's sole and exclusive remedy and are in lieu of any other warranties (express or implied), **including warranty of merchantability or warranty of fitness for a particular purpose**, and of any non–contractual liabilities, including product liabilities, based on negligence or strict liability. Every form of liability for direct, special or consequential damages or loss is expressly excluded and denied. In no case shall Graco's liability exceed the amount of the purchase price. Any action for breach of warranty must be brought within two (2) years of the date of sale.

EQUIPMENT NOT COVERED BY GRACO WARRANTY

Graco makes no warranty, and disclaims all implied **warranties of merchantability and fitness for a particular purpose**, with respect to accessories, equipment, materials, or components sold but not manufactured by Graco. These items sold, but not manufactured by Graco (such as electric motor, 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.

Graco Phone Numbers

TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you: **1–800–367–4023 Toll Free**

FOR TECHNICAL ASSISTANCE, service repair information or assistance regarding the application of Graco equipment: **1–800–543–0339 Toll Free**

Sales Offices: Atlanta, Chicago, Dallas, Detroit, Los Angeles, Mt. Arlington (N.J.) Foreign Offices: Canada; England; Korea; Switzerland; France; Germany; Hong Kong; Japan