### INSTRUCTIONS-PARTS LIST



This manual contains IMPORTANT WARNINGS and INSTRUCTIONS READ AND RETAIN FOR REFERENCE

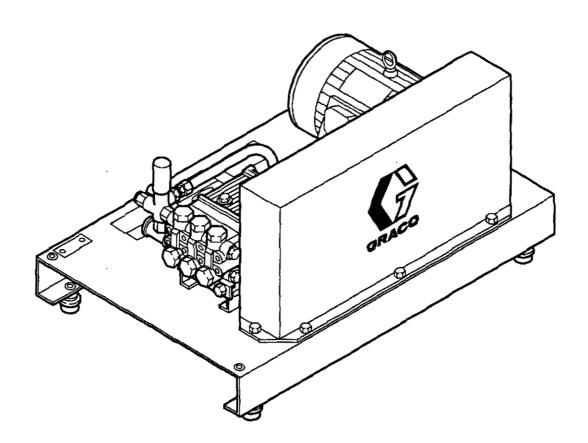
### HYDRA-CLEAN® 710, 720, 1010, 1020 Pressure Washer

Model 800-902, Series A 230/460 Volt, 3 Phase, 10 GPM Model 800-904, Series A 230/460 Volt, 3 Phase, 20 GPM

700 psi (48 bar) OPERATING PRESSURE 1100 psi (75 bar) MAXIMUM WORKING PRESSURE

Model 800-903, Series A 230/460 Volt, 3 Phase, 10 GPM Model 800-905, Series A 230/460 Volt, 3 Phase, 20 GPM

1000 psi (69 bar) OPERATING PRESSURE 1300 psi (91 bar) MAXIMUM WORKING PRESSURE



Water supply tank, gun & wand assembly, hose assembly and motor starter are not included.

GRACO INC. P.O. Box 1441 MINNEAPOLIS, MN 55440-1441

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#### WARNING

# HIGH PRESSURE SPRAY CAN CAUSE SERIOUS INJURY. FOR PROFESSIONAL USE ONLY, OBSERVE ALL WARNINGS.

Read and understand all instruction manuals before operating equipment.

#### FLUID INJECTION HAZARD

#### **General Safety**

This pressure washer generates very high fluid pressure. Spray from the gun, leaks or ruptured components can inject fluid through your skin and into your body and cause extremely serious bodily injury including the need for amputation. Also, fluid injected or splashed into the eyes or on the skin can cause serious damage.

**NEVER** point the spray gun or wand at anyone or at any part of the body. **NEVER** put hand or fingers over the spray tip.

ALWAYS follow the **Pressure Relief Procedure**, before cleaning or servicing any part of the sprayer.

**NEVER** try to stop or deflect leaks with your hand or body.

Be sure equipment safety devices are operating properly before each use.

#### Medical Treatment

If any fluid appears to penetrate your skin, get EMERGENCY MEDICAL TREATMENT AT ONCE. DO NOT TREAT AS A SIMPLE CUT. Tell the doctor exactly what fluid was injected.

NOTE TO PHYSICIAN: Injection in the skin is a traumatic injury. It is important to treat the injury surgically as soon as possible. Do not delay treatment to research toxicity. Toxicity is a concern with some exotic coatings injected directly into the bloodstream. Consultation with a plastic surgeon or reconstructive hand surgeon may be advisable.

#### Pressure Relief Procedure

To reduce the risk of serious bodily 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.

- Engage the trigger safety latch.
- Tum the sprayer off.
- 3. Disconnect the electrical supply.
- Shut off the water supply.
- Disengage the trigger safety latch and trigger the gun to relieve pressure, and then engage the trigger safety latch again.
- Before long-term (overnight) storage, disconnect the water supply and disconnect the electricity.

#### Spray Gun Safety Devices

Be sure all gun safety devices are operating properly before each use. Do not remove or modify any part of the gun; this can cause a malfunction and result in serious bodily injury.

SAFETY LATCH: Whenever you stop spraying for a moment, always set the gun safety latch in the engaged or "safe" position, making the gun inoperative. Failure to properly set the safety latch can result in accidental triggering of the gun.

SPRAY TIP SAFETY: Use extreme caution when cleaning or changing spray tips. If a spray tip clogs while spraying, engage the gun safety latch immediately. *ALWAYS* follow the **Pressure Relief Procedure** and then remove the spray tip to clean it.

#### GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This equipment is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

#### DANGER

Improper connection of the equipment-grounding conductor can result in the risk of electrocution. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded.

#### **GROUND FAULT CIRCUIT INTERRUPTER PROTECTION**

To comply with the National Electrical Code (NFPA 70) and to provide additional protection from the risk of electric shock, connect this pressure washer to a circuit that is protected by a ground-fault circuit-interrupter (GFCI).

#### **EQUIPMENT MISUSE HAZARD**

#### **General Safety**

Any misuse of the pressure washer or accessories, such as overpressurizing, modifying parts, using incompatible chemicals and fluids, or using worn or damaged parts, can cause them to rupture and result in fluid injection, splashing in the eyes or on the skin, or other serious bodily injury, fire, explosion or property damage.

**NEVER** alter or modify any part of this equipment; doing so could cause it to malfunction.

CHECK all spray equipment regularly and repair or replace worn or damaged parts immediately.

ALWAYS wear protective eyewear and appropriate clothing. If using a chemical injector, read and follow the chemical manufacturer's literature for recommendations on additional protective equipment, such as a respirator.

#### System Pressure

This sprayer can develop high operating pressure. Be sure that all spray equipment and accessories are rated to withstand the maximum working pressure of this sprayer. DO NOT exceed the maximum working pressure of any component or accessory used in the system.

#### Chemical Compatibility

BE SURE that all chemicals used in the chemical injector are compatible with the wetted parts of the hose, gun, wand and tip, as given in the Technical Data (inside back cover). Always read the chemical manufacturer's literature before using any chemical in this pressure washer.

#### HOSE SAFETY

High pressure fluid in the hoses can be very dangerous. If the hose develops a leak, split or rupture due to any kind of wear, damage or misuse, the high pressure spray emitted from it can cause a fluid injection injury or other serious bodily injury or property damage.

ALL FLUID HOSES MUST HAVE STRAIN RELIEFS ON BOTH ENDS. The strain reliefs help protect the hose from kinks or bends at or close to the coupling, which can result in hose rupture.

TIGHTEN all fluid connections securely before each use. High pressure fluid can dislodge a loose coupling or allow high pressure spray to be emitted from the coupling.

NEVER use a damaged hose. Before each use, check entire hose for cuts, leaks, abrasion, bulging cover, or damage or movement of the hose couplings. If any of these conditions exist, replace the hose immediately. DO NOT try to recouple high pressure hose or mend it with tape or any other device. A repaired hose cannot contain the high pressure fluid.

**HANDLE AND ROUTE HOSES CAREFULLY.** Do not pull on hoses to move the pressure washer. Do not use chemicals which are not compatible with the inner tube and cover of the hose. *DO NOT* expose Graco hose to temperatures above 200° F (93° C) or below -40° F (-40° C).

#### **MOVING PARTS HAZARD**

Moving parts can pinch or amputate fingers or other body parts. *KEEP CLEAR* of moving parts when starting or operating the pressure washer.

NEVER operate the pressure washer without all guards and interlocks installed and functioning. Follow the

**Pressure Relief Procedure** before checking or servicing the pressure washer to prevent discharging high pressure fluid from the gun.

#### TERMS

WARNING or DANGER: Alerts user to avoid or correct conditions that could cause bodily injury.

**CAUTION:** Alerts user to avoid or correct conditions that could cause damage to the equipment.

**NOTE:** Identifies helpful procedures and information.

#### **IMPORTANT**

United States Government safety standards have been adopted under the Occupational Safety and Health Act. These standards—particularly the General Standards, Part 1910, and the Construction Standards, Part 1926—should be consulted.

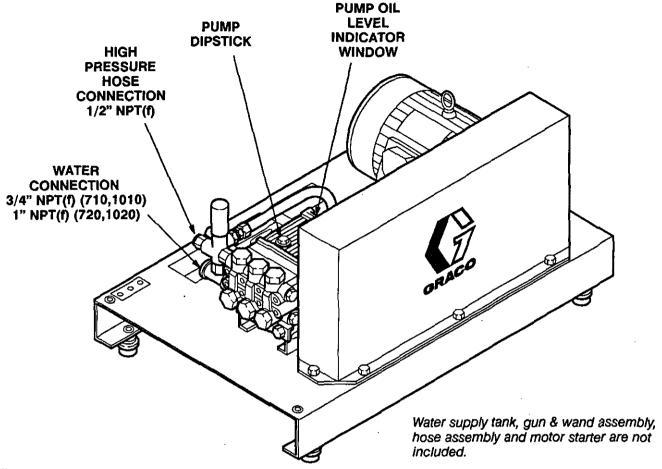


Figure 1

#### **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

Before connecting the unit, be sure the electrical service matches the specification in Technical Data (inside back cover) and the voltage label on the unit. With the unit off, connect the power supply cord to a grounded, GFCI-protected circuit.

If you are using a downstream chemical injector, install it between the pump unloader and the high pressure hose.

Connect the high pressure hose between the pump outlet and the gun inlet.

#### - 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.

A backflow preventer P/N 801-133 is available to prevent backflow of contaminated water into the fresh water supply. Install it upstream from the pump.

Install a regulating water valve, P/N 800-258, if inlet water pressure is over 60 psi (4.1 bar).

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

NOTE: The water source for the unit *must* have a minimum 55 gallon float valve controlled water holding tank.

#### STARTUP

Use this procedure whenever starting the pressure washer to help insure that the unit is ready to operate and starting is done safely.

1. Check the oil level.

Pump: Add SAE 20 or 30 weight non-detergent oil as necessary.

2. Turn on the water supply.

#### - 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. Trigger the gun until water sprays from the tip indicating that the air is purged from the system.
- 4. Start the unit.
- 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.

ALWAYS observe the following CAUTIONS to avoid costly damage to the pressure washer.

#### - 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 run the pump dry, which will quickly damage the pump. Be sure the water supply is fully turned on before starting the pump.

DO NOT pump caustic materials; such materials may corrode the pump components.

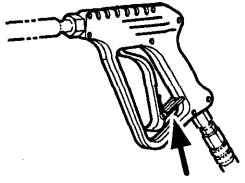
7. See the chemical injector or sandblaster kit manual for detailed cleaning information if these accessories are used.

#### **Trigger Safety Latch**

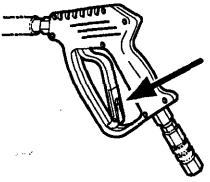
#### - WARNING

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 SHOWN ENGAGED



TRIGGER SAFETY LATCH SHOWN DISENGAGED

Figure 2

#### **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. Without holding your hand over the spray tip (A), pull back the quick coupler ring (B), remove the tip and then release the ring. See Figure 3.
- 4. Be sure the tip is secure before starting to spray again.
- 5. 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.

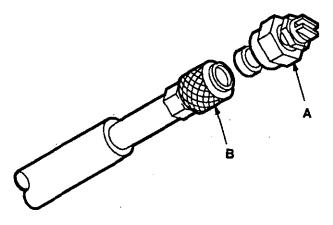


Figure 3 -

#### SHUTDOWN, FLUSHING AND STORAGE

#### - WARNING

#### PRESSURE RELIEF PROCEDURE

To reduce the risk of serious bodily 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.

- Engage the trigger safety latch.
- 2. Turn the sprayer off.
- 3. Disconnect the electrical supply.
- 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.
- Before long-term (overnight) storage, disconnect the water supply and disconnect the electricity.

 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.

#### 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!

- 2. After each use, wipe all surfaces of the pressure washer with a clean, damp cloth.
- Perform the appropriate maintenance. See the maintenance chart.

#### 

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 pump. After changing the oil initially, the interval between required changes is longer.

#### - 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 Warning** before proceeding.

Interval	What to do
Daily	Clean water inlet screen and filter. Check pump oil level. Fill as necessary.
After first 50 hours of operation	Change pump break-in oil. Use SAE 20 or 30 non-detergent oil.
Each 500 hours of operation or 6 months	Change pump oil. Use SAE 20 or 30 non-detergent oil.

#### TROUBLESHOOTING CHART

#### 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 Warning** before proceeding.

PROBLEM	CAUSE	SOLUTION
Low pressure and/or	Wom or wrong size tip.	Replace with tip of proper size.
pump runs rough	Inlet filter clogged.	Clean. Check more frequently.
	Worn packings, abrasives in water or natural wear.	Check filter. Replace packings. See PUMP SERVICE.
	Inadequate water supply.	Check water flow rate to pump. Unit must have a minimum 55 gallon float valve controlled water holding tank.
	Belt slippage.	Tighten or replace.
	Fouled or dirty inlet or discharge valves. Even a small particle can cause the valve to stick.	Clean inlet and discharge valve assemblies. Check filter.
	Restricted inlet.	Check garden hose, may be collapsed or kinked.
	Worn inlet or discharge valves.	Replace worn valves.
	Leaking high pressure hose.	Replace high pressure hose.
Water leakage from under pump manifold	Worn packings.	Install new packings. See PUMP SERVICE.
Water in pump	Humid air condensing inside crankcase.	Change oil as specified in MAINTENANCE.
	Worn packings.	Install new packings. See PUMP SERVICE.
	Oil seals leaking.	Install new oil seals, See PUMP SERVICE.
Frequent or	Scored, damaged or worn plungers.	Install new plungers. See PUMP SERVICE.
premature failure of the packings	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 160°F.
	Overpressurizing pump.	Do not modify any factory-set adjustments. See EQUIPMENT MISUSE HAZARD.
	Excessive pressure due to partially plugged or damaged tip.	Clean or replace tip. See Installing and Changing Spray Tips.
	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 the inlet and low pressure on the discharge side	Foreign particles in the inlet or discharge valve or worn inlet and/or discharge valves.	Clean or replace valves. See PUMP SERVICE.
Unit will not start	Unit not plugged in.	Check power cord.
	Electrical service off/GFCI activated.	Check fuse/circuit breaker. Check for proper
	Thermal overload has tripped.	grounding.
		Press reset button on motor for 1 phase units. Press stop button on the motor starter for 3 phase units.

#### - 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 Warning** before proceeding.

NOTE: The following metric wrenches are needed: M10, M13 and M30. 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 are two different tool kits to aid in servicing the pump. P/N 800-298 is used to ease installation of packings. P/N 800-271 includes the items in 800-298 and tools to aid in the removal of packing retainers.

#### **Valves**

NOTE: For a set of six valves, order P/N 803-664 or 803-666.

- Remove the hex plug from the manifold using an M30 wrench.
- Examine the o-ring under the hex plug and replace it if it is cut or distorted.
- Remove the valve assembly from the cavity; the assembly may come apart.
- Install the new valve. Install the o-ring and hex plug; torque to 75 ft-lb (103 Nm).

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

#### **Pumping Section**

- Remove the eight capscrews and lockwashers from the manifold using an M13 wrench.
- 2. Carefully separate the manifold from the crankcase.

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

#### - CAUTION -

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

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

#### Servicing the Plungers

NOTE: Plunger repair kit, P/N 803-677 is available to replace retainers, o-rings, washers and backup rings for three cylinders.

- Loosen the plunger retaining screw five to six turns, using an M10 wrench. Push the plunger towards the crankcase to separate the plunger and retaining screw.
- Remove the screw from the plunger and examine the o-ring, backup ring and copper bearing/gasket washer. Replace these parts, if necessary, using kit 801-474.
- Remove the plunger and flinger from the plunger shaft. Clean, examine and replace parts as necessary.
- 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.
- Lightly grease the oil seal, if it is being replaced, and the flinger and replace them on the plunger shaft. Then install the plunger.
- 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 14.4 ft-lb (19.5 Nm).

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

- Lubricate the outside of each plunger. Slide the manifold onto the crankcase, being careful not to damage the seals.
- Install the capscrews and washers finger-tight.
   Torque the screws to 21.7 ft-lb (29 Nm) following the tightening pattern (Figure 4). Uneven tightening may cause the manifold to bind or jam.

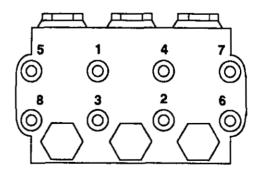


Figure 4

#### Servicing the V-Packings

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

- Remove the manifold as outlined in the Pumping Section.
- Carefully pull the packing retainer from the manifold. Examine the o-ring and replace it if it is cut or damaged.
- Remove the v-packing and head ring. Pull out the intermediate retainer ring. Remove the second v-packing and second head ring.
- Inspect all parts and replace as necessary.

- Thoroughly clean the packing cavities and examine for debris and damage.
- 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.

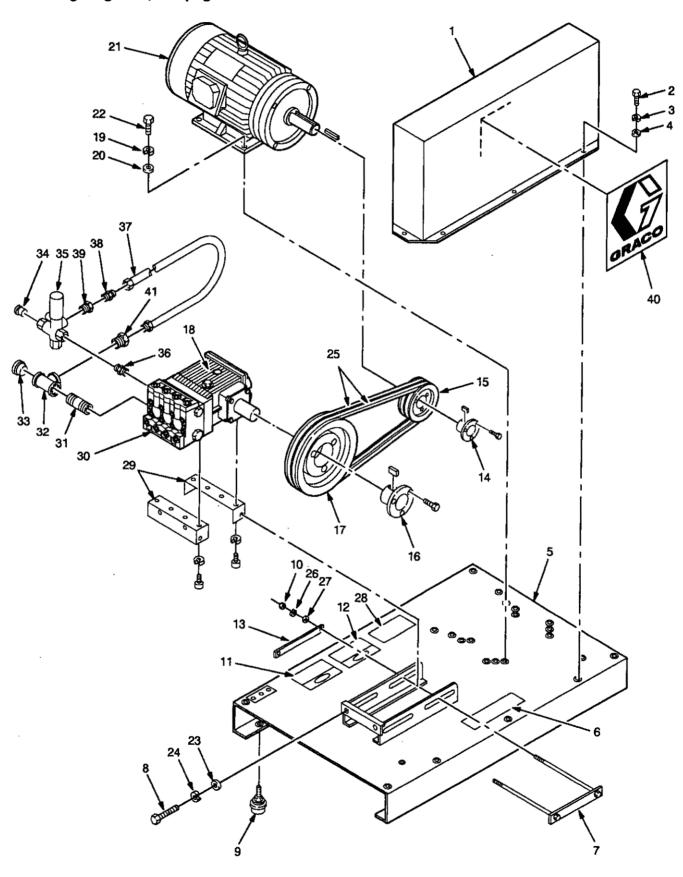
#### - CAUTION -

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.

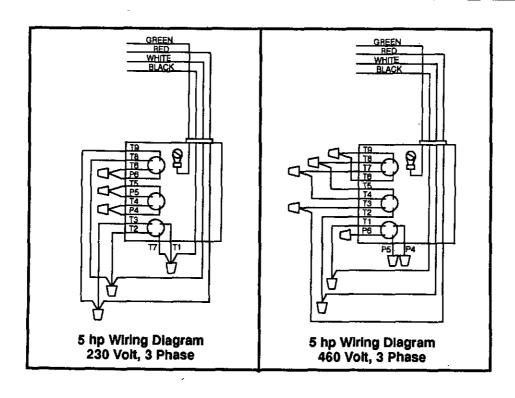
PARTS DRAWING

800-902 Hydra-Clean® 710 Pressure Washer 800-903 Hydra-Clean® 1010 Pressure Washer For wiring diagrams, see pages 13 and 15



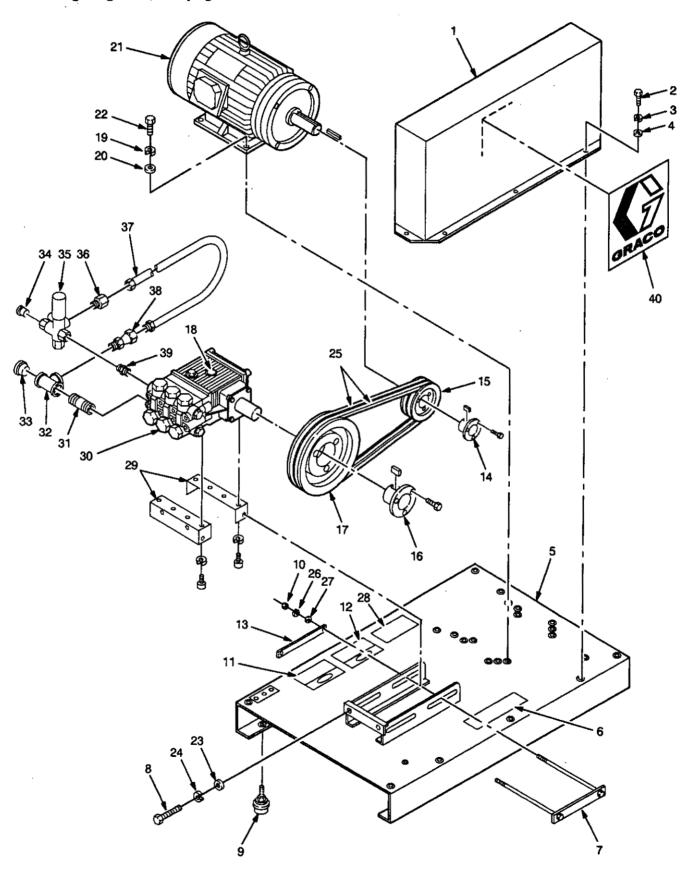
# PARTS LIST 800-902 Hydra-Clean® 710 Pressure Washer 800-903 Hydra-Clean® 1010 Pressure Washer

REF	PART			REF	PART		
NO.	NO.	DESCRIPTION	QTY	NO.	NO.	DESCRIPTION	QTY
1		BELT GUARD	1	20	100-527	WASHER, Flat, 5/16	_
2	801-940	SCREW, Cap, hex hd,	_		400 000	(for 800–902 only)	4
•	100 014	5/16-18x3/4	5		100-023	WASHER, Flat, 3/8	_
3		WASHER, Lock, 5/16	5	04	000 570	(for 800–903 only)	4
4		WASHER, Flat, 5/16	5	21	803-579	MOTOR, 5 hp, TEFC,	
4 5 6 7	177 144	CHASSIS	1		000 500	3 phase (for 800-902 only)	1
0	177-144	LABEL, Warning, belt guard	ļ		803-580	MOTOR, 7-1/2 hp, TEFC,	
6		BRACKET, Rail Stiffener	1	22	001 041	3 phase (for 800-903 only)	1
8	003-777	SCREW, Cap, hex hd, 3/8-16x5 FOOT, Rubber	2	22	801-941		
10		NUT, Lock 1/2-13	2		002 502	(for 800–902 only)	4
11		LABEL, Warning, chassis	4		003-393	SCREW, Cap, hex hd	4
12	176-250	LABEL, Warning, chassis	1	22	100 000	(for 800–903 only)	4
13	202-560	BRACKET, Rail Stiffener	1	23 24	100~023	WASHER, Flat, 3/8 WASHER, Lock, 3/8	2
14		HUB, Motor, 5 hp		2 <del>4</del> 25			2
14	601-370	(for 800–902 only)	1	23		BELT, Drive (for 800-902 only) BELT, Drive (for 800-903 only)	2
	202-576	HUB, Motor, 7–1/2 hp	'	26			2
	005-570	(for 800–903 only)	1	27	902-704	WASHER, Lock, 1/2 WASHER, Flat, 1/2	2
15	203760	SHEAVE, Motor	'	28	903-306	DECAL, Warning/Caution	2 2 2 2 2 2 2 1
10	000-709	(for 800–902 only)	1	29	900-445	BRACKET, Pump Support	
	801-911		'	30	902-577	PUMP, 10 GPM (see page 16)	2
	001 511	(for 800–903 only)	1	31	003-077	NIPPLE, 3/4x2	1
16	803-575	HÜB, Pump	1	32	801-787		1
	000 0,0	(for 800–902 only)	1	33		PLUG, Plastic, 3/4	4
	803-574	HÜB, Pump	•	34		PLUG, Plastic, 1/2	1
	000 0, 1	(for 800-903 only)	1	35	800-687	UNLOADER, 700 PSI	
17	803~770	SHEAVE, Pump	•	00	000 001	(for 800-902 only)	1
••	000	(for 800-902 only)	1		800-688		•
	803-068	SHEAVE, Pump	•		000 000	(for 800-903 only)	1
	000 000	(for 800-903 only)	1	36	150~230	NIPPLE, Hex 3/8x1/2	4
18	803-517	LABEL, Keep From Freezing	i	37	803-141		1
19	100-214	WASHER, Lock, 5/16	•	38	803-142	NIPPLE, Hex	•
		(for 800-902 only)	4			1/2 NPSM x 3/8 NPT	1
	100-133	WASHER, Lock, 3/8	•	39	801-274	BUSHING, Hex, 3/8x1/4	í
		(for 800-903 only)	4	40	803-872	LABEL, Graco G	i
		,, ,	-	41	802-096	BUSHING, Hex, 1/2x3/4	i
				••	-330		•



#### **PARTS DRAWING**

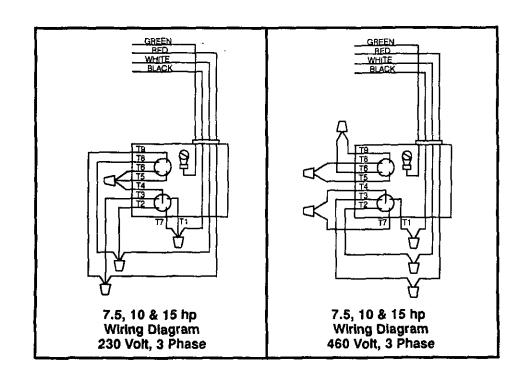
800-904 Hydra-Clean® 720 Pressure Washer 800-905 Hydra-Clean® 1020 Pressure Washer For wiring diagrams, see pages 13 and 15

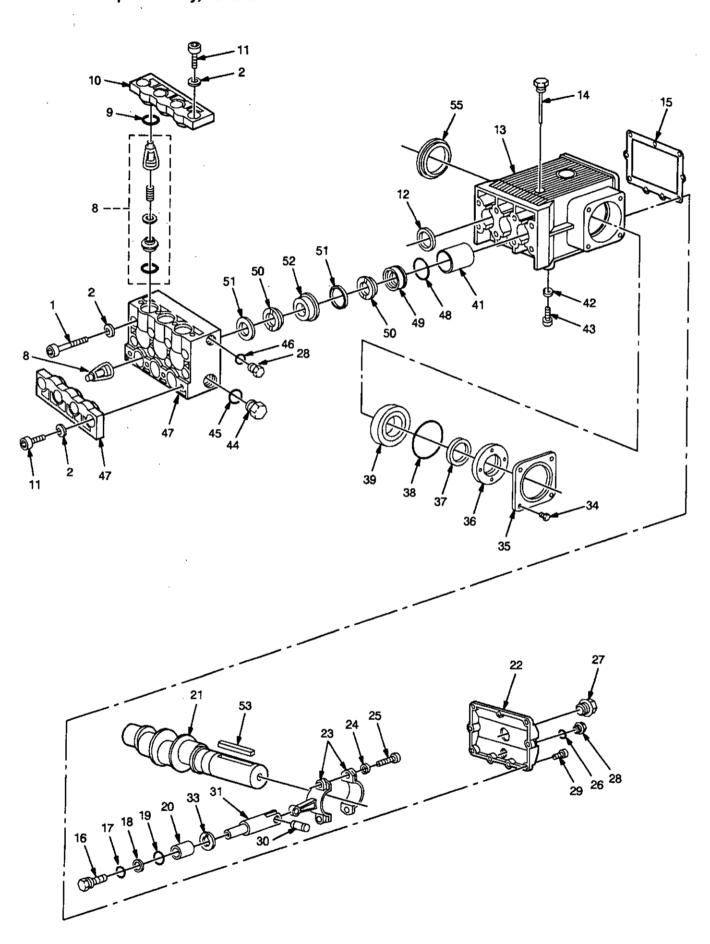


#### PARTS LIST

# 800-904 Hydra-Clean® 720 Pressure Washer 800-905 Hydra-Clean® 1020 Pressure Washer

REF	PART			REF	PART		
NO.	NO.	DESCRIPTION	QŢY	NO.	NO.	DESCRIPTION	QTY
1		BELT GUARD	1	20	100-023	WASHER, Flat, 3/8	
2	801-940	SCREW, Cap, hex hd,	_			(for 800–904 only)	4
		5/16-18x3/4	5		803-591	WASHER, Flat, 1/2	
3		WASHER, Lock, 5/16	5			(for 800–905 only)	4
4		WASHER, Flat, 5/16	5	21	803-581		
5 6 7 8 9		CHASSIS	1			3 phase (for 800-904 only)	1
6		LABEL, Warning, belt guard	1		803-582		
7		BRACKET, Rail Stiffener	1			3 phase (for 800-905 only)	1
8		SCREW, Cap, hex hd, 3/8-16x5		22	803~593		
	802-845	FOOT, Rubber	4			(for 800-904 only)	4
10		NUT, Lock 1/2-13	2		803-592	SCREW, Cap, hex hd	
11	172-981	LABEL, Warning, chassis	- 1			(for 800–905 only)	4
12		LABEL, Warning, chassis	1	23		WASHER, Flat, 3/8	2
13	803-560	BRACKET, Rail Stiffener	1	24		WASHER, Lock, 3/8	2
14	803-767	HUB, Motor, 10 hp		25		BELT, Drive	4222221
		(for 800–904 only)	1	26		WASHER, Lock, 1/2	2
	801-823	HÙB, Motor, 15 hp		27	803-591	WASHER, Flat, 1/2	2
		(for 800-905 only)	1	28	803-396	DECAL, Warning/Caution	
15	803-878	SHEAVE, Motor		29	800-446	BRACKET, Pump Support	2
		(for 800–904 only)	1	30	803-578	PUMP 20 GPM (see page 18)	1
	803-879	SHEAVE, Motor		31		NIPPLE, Hex, 1	1
		(for 800~905 only)	1	32	803-586	TEE, 1	1
16	803-575	HÙB, Pump		33		PLUG, Plastic, 1	1
		(for 800–904 only)	1	34	803-599	PLUG, Plastic, 1/2	1
	803-574	HÙB, Pump		35	800-687	UNLOADER, 700 PSI	
		(for 800–905 only)	1			(for 800-904 only)	1
17	803-880	SHEAVE, Pump			800-688	UNLOADER, 1000 PSI	
		(for 800–904 only)	1			(for 800-905 only)	1
	803-776	SHEAVE, Pump		36	168-595	ADAPTER, Hex 3/4x1/2	1
		(for 800-905 only)	1	37	214-956	HOSE, Bypass	1
18	803-517	LABEL, Keep From Freezing	1	38		SWIVEL, 1x3/4	1
19		WASHER, Lock, 3/8		39	157-191	NIPPLE, Hex, 1/2x3/4	1
=		(for 800-904 only)	4	40		LABEL, Graco G	1
	802-784	WASHER, Lock, 1/2					
		(for 800-905 only)	4				
		~					

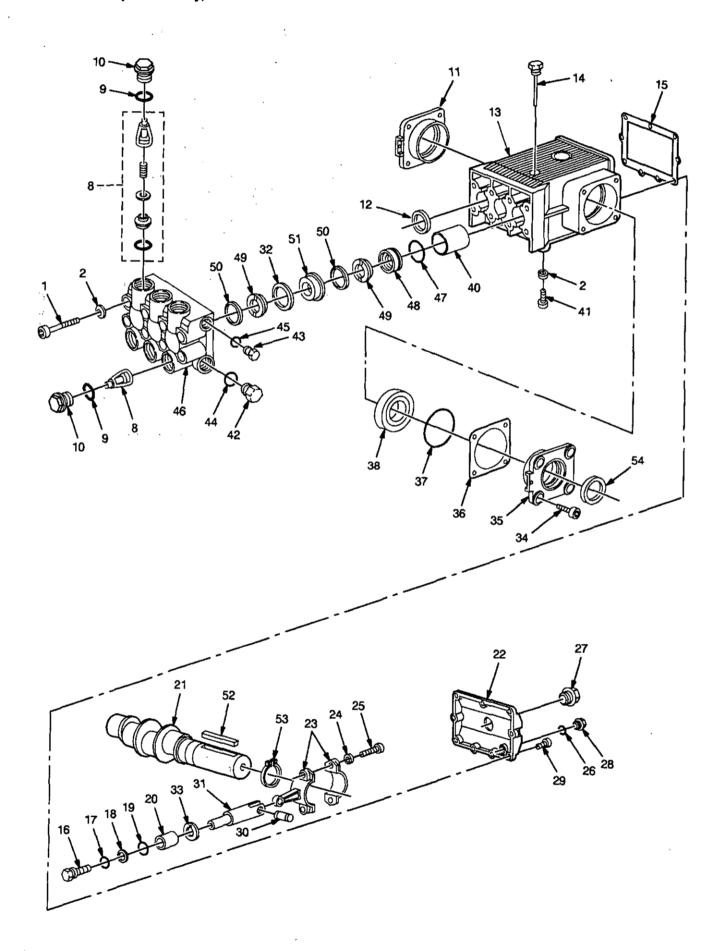




# PARTS LIST 803-577 Pump Assembly, 10 GPM

REF	PART	DECADINE	47.	REF	PART		
NO. 1	<b>NO.</b> 803-657	DESCRIPTION SCREW Con cocket bd	QTY 8	NO.	NO.	DESCRIPTION CLUDE Piston	QŢY
				31	803-610		3
2 8		WASHER, Lock	16	33	803-641	WASHER, Flinger	3 8 2
8	KIT 62	VALVE ASSEMBLY	6	34	803-653		8
9		O-RING	6	35		COVER, Crankcase	2
10		COVER, Valve	2	36	803-613		1
11		SCREW, Cap, socket hd.	8	37	KIT 32	SEAL, Oil	1
12	KIT 37	SEAL, Oil	3	38	803-632	O-RING	2
13	803-606	CRANKCASE	1	39	803-638	BEARING, Ball	2
14	801-475	DIPSTICK	1	41	803-633	BUSHING	3
15	803-615	GASKET, Cover	1	42	802-317	WASHER, Lock	4
16	<b>KIT 74</b>	SCREW, Piston	3	43	802-305	SCREW, Cap, socket hd.	4
17	<b>KIT 74</b>	O-RING	3	44		PLUG, Hex hd.	1
18	KIT 74	RING, Backup	3	45	803-643		1
19	<b>KIT 74</b>	WASHER, Flat	3	46		WASHER, Flat	i
20	803-609	PISTON	3	47	803-611	HEAD, Pump	1
21	803-607	CRANKSHAFT	1	48	KIT 39	O-RING	6
22	803-612	COVER, Crankcase	1	49	KIT 39	RETAINER, Packing	6
23	803-608	ROD, Connecting	3	50	KIT 38.39	PACKING	6
24		WASHER, Lock	6	51	KIT 39	RING, Head	6
25		SCREW, Cap, socket hd.	6	52	KIT 39	RING, Intermediate	3
26	802-344	O-RING	1	53	803-635		1
27		GAUGE, Sight	1	54		RING, Retaining	i
28		PLUG, Hex hd.	2	55	803-614	SPACER	1
29	803-651	SCREW, Cap, socket hd.			200 0.7		•
30	803-645	PIN, Wrist	9 3				
-	550 570	THE TRIBE	•				

Kit No.	Repair Kit Part No.	Ref No.	Description	Qty. incl.
32	803-660 Crankshaft Seal	37	SEAL, Oil	2
37	<b>803-661</b> Oil Seal	12	SEAL, Oil	3
38	<b>803-662</b> Packing	50	PACKING	6
39	803-663 Packing & Retainer	48 49 50 51 52	O-RING RETAINER, Packing PACKING RING, Head RING, Intermediate	1 1 2 1
62	<b>803-666</b> Valve	8	VALVE ASSEMBLY	6
74	803-677 Plunger Repair	16 17 18 19	SCREW, Piston O-RING RING, Back-up WASHER, Flat	3 3 3 3



# PARTS LIST 803-578 Pump Assembly, 20 GPM

REF	PART	DECORIDATION .		REF	PART		
NO.	NO. 803-659	DESCRIPTION SCREW, Cap, socket hd.	QTY 8	NO.	NO.	DESCRIPTION	QTY
,				30		PIN, Wrist	3
2	803-640	WASHER, Lock	12	31	803-629		3
8	KIT 43		6	32		RING, Backup	3 3
9		O-RING	6	33	803-641		3
10	803-650	•	6	34	803-654		8
11	803-624		1	35	803-623	COVER, Crankcase	1
12	KIT 44	SEAL, Oil	3	36	803-628	SHIM	2
13	803-617	CRANKCASE	1	37	802-353	O-RING	2
14	803-648	DIPSTICK	`1	38	803-637	BEARING, Tapered Roller	2
15	803-627	GASKET, Cover	1	40	803-634		3
16	KIT 74	SCREW, Piston	3	41	803-658		4
17	KIT 74	O-RING	3	42	803-649		1
18	KIT 74	RING, Backup	3	43	803-647	PLUG, Hex hd.	1
19	KIT 74	WASHER, Flat	3	44	803-644	WASHER, Flat	1
20	803-621	PISTON	3	45	803-643		1
21	803-618	CRANKSHAFT	1	46	803-622	HEAD, Pump	1
22	803-625	COVER, Crankcase	1	47	KIT 80	O-RING	3
23	803-620	ROD, Connecting	3	48	KIT 80	RETAINER, Packing	3
24	803-639	WASHER, Lock	6	49	KIT 79,80	PACKING	6
25	803-656	SCREW, Cap, socket hd.	6	50	KIT 80	RING, Head	6
26	802-344		2	51	KIT 80	RING, Intermediate	3
27	802-345		1	52	803-636	KEY	1
28	801-484		2	53	802-357	RING, Snap	i
29	803-652	SCREW, Cap, socket hd.	10	54	KIT 32	SEAL, Oil	i

Kit No.	Repair Kit Part No.	Ref No.	Description	Qty. Incl.
32	803-660 Oil Seal	54	SEAL, Oil	2
43	803-664 Valve	8	VALVE ASSEMBLY	6
44	803-665 Oil Seal	12	SEAL, Oil	3
74	803-667 Plunger Repair	16 17 18 19	SCREW, Piston O-RING RING, Back-up WASHER, Flat	3 3 3 3
79	803-668 Packing	32 49	RING, Back-up PACKING	3 6
80	803-669 Packing & Retainer	32 47 48 49 50 51	RING, Back-up O-RING RETAINER, Packing PACKING RING, Head RING, Intermediate	1 1 1 2 1

#### ACCESSORIES

(Must be purchased separately)

#### DOWNSTREAM CHEMICAL INJECTOR KIT 800-117 BRASS UP TO 5.5 GPM (21 LPM) 800-425 BRASS 5.6 TO 10.8 GPM (21 TO 41 LPM)

## 800-649 STAINLESS STEEL UP TO 5.5 GPM (21 LPM)

For injecting harsh cleaning chemicals downstream from the pump.

#### **INLET PRESSURE REGULATOR 800-258**

Regulates inlet water pressure to 60 psi (4 bar) maximum.

### HOSE ASSEMBLY WITH QUICK COUPLERS 800-375

3/8" diameter x 50 foot x 4000 psi (276 bar) permanently coupled hose with 801-568 and 801-569 3/8" quick couplers.

#### **BACKFLOW PREVENTOR 801-133**

Prevent back-up of contaminated water into fresh supply. Install upstream of pump.

#### **GUN & WAND ASSEMBLY**

connections for hose and spray tip.

800-392

Includes 803-350 spray gun, 32" spray wand and quick couplers for hose and spray tip connections.

#### 800-398

Includes 803-350 spray gun, 32" spray wand, quick coupler for hose connection and adjustable nozzle.

**800–042** Includes 800–222 stainless steel spray gun, 32" stainless steel spray wand and stainless steel threaded

#### TECHNICAL DATA

	Model 800-902	Model 800-903	Model 800-904	Model 800-905			
Motor (Totally Enclosed Fan Cooled)	5.0 hp, 3 phase	7.5 hp, 3 phase	10.0 hp, 3 phase	15.0 hp, 3 phase			
Electrical Service	230 volt/20 amp/ 3 phase or	230 volt/20 amp/ 3 phase or	230 volt/30 amp/ 3 phase or	230 volt/40 amp/ 3 phase or			
	460 volt/15 amp/ 3 phase	460 volt/15 amp/ 3 phase	460 volt/15 amp/ 3 phase	460 volt/20 amp/ 3 phase			
Water Pump Maximum Working Pressure	700 psi (48 bar)	1000 psi (69 bar)	700 psi (48 bar)	1000 psi (69 bar)			
Water Pump Maximum Flow	10.0 gpm (38.0 lpm)	10.0 gpm (38.0 lpm)	20.0 gpm (76.0 lpm)	20.0 gpm (76.0 lpm)			
Unit Weight	171 lbs (78 kg)	197 lbs (90 kg)	263 lbs (119 kg)	293 lbs (133 kg)			
Dimensions Length Width Height	38 in (991 mm) 27 in (533 mm) 20 in (533 mm)	38 in (991 mm) 27 in (533 mm) 20 in (533 mm)	43 in (1092 mm) 31 in (787 mm) 25 in (635 mm)	43 in (1092 mm) 31 in (787 mm) 25 in (635 mm)			
Maximum Inlet Water Temperature	160° F (70° C)	160° F (70° C)	160° F (70° C)	160° F (70° C)			
Inlet Hose Connection	3/4 in NPT (f)	3/4 in NPT (f)	1 in NPT (f)	3/4 in NPT (f)			
Outlet Hose Connection	1/2 NPT (f)	1/2 NPT (f)	1/2 NPT (f)	1/2 NPT (f)			
Wetted Parts High Pressure Hose	Acrylonitrile and Buna-N cover and tube						
Bypass Hose	Synthetic yam and EPDM						
Pressure Washer (including fittings)	Anodized aluminum, Aluminum or Bronze alloys, Brass, Copper, Nylon-TePTFE Imposite, Ceramic, Buna-N Cotton Phenolic, 303, 304, and 316 Stainless Steel, Polymide-12 Thermoplastic, PTFE Carbon Steel, Zinc with or without Yellow Chromate Plate						
	PTFE is a registered	trademark of the DuPon	nt Company.				

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