

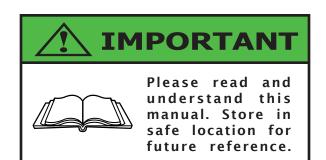
Serial Number:

Wash Prep Systems featuring CAT PUMPS®

DUPM623 DUPM820 / DUPM820-TS DUPM820D / DUPM820D-TS DUPM1010



Owner's Manua	l #0779 072415	
	Installation Date:	



Everyone who operates this unit should understand basic operations and safety precautions! The time you take to fully understand the proper installation, maintenance and use of the machine will prolong its service life, and assure you of trouble free operation.

When unpacking, check to make sure all the parts shown on the Parts Breakdown near the end of this manual are included. If any parts are missing or broken, please call Dultmeier Sales as soon as possible.

Consumers should notice that this manual may differ slightly from the actual product as more improvements are made to our products. Some of the pictures in this manual may differ slightly from the actual product as well. Dultmeier Sales reserves the right to update designs and / or change the specifications at any time without incurring any obligation to install them on units previously sold.

If you have any questions or suggestions about this manual, please contact us.

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To avoid serious or fatal personal injury or major property damage, read and follow all safety and operation instructions in the manual.



This is a Safety Alert Symbol -

When you see this symbol in the manual, look for the following signal words & be alert to the potential for personal injury or property damage.

DANGER

Warns of potential hazards that WILL cause serious personal injury, death or property damage.

WARNING

Warns of potential hazards that CAN cause serious personal injury, death or property damage.

CAUTION

Warns of potential hazards that WILL or CAN cause minor personal injury, death or property damage.

↑ IMPORTANT

Indicates special instructions that MUST be followed but not related to hazards.

This manual is intended to assist in the installation and operation of this unit. Do not attempt to operate this unit without reading and understanding this manual.

General Safety

To avoid the risk of serious bodily injury and property damage, read safety instructions carefully before installing this system. Follow all local and/or national plumbing and electrical codes when installing.



Do Not Allow System or Components to Freeze.

To do so may damage the system and will void the warranty.



Never Run the System Dry.

Running the unit dry (without fluid) can damage internal parts, overheat pump (which can cause burns to people handling or servicing the pump), and will void the warranty.



Risk of Electric Shock.

Keep the unit dry at all times -

Do not wash the motor or electrical panel or allow the unit to sit in standing water.

Use only Ground Fault Circuit Interrupter (GFCI) protected grounded outlet for the cord plug. If you must use an extension cord, use only UL approved indoor/outdoor, 3-wire, grounding type cords. The cord must be rated to support amp draw. Do not allow any part of cord or receptacle ends to sit in water.

To avoid fatal shocks, proceed as follows if service is needed:

- Turn off water to the system. Α.
- Disconnect the power at main electrical service before unplugging the unit. B.
- C. Ground the electrical outlet box.
- Take extreme care when changing fuses. D.



Do not run the unit with discharge shut off, as hose may burst or damage may occur.



Modern motors can operate at high temperatures. To avoid burns when servicing pump, allow it to cool for 20 minutes after shutdown before handling.

DUPM623 Wash Prep System Specifications

Model DUPM623

Style High Pressure Piston Pump

Capacity 6 GPM

Maximum Inlet Pressure...... 40 PSI

Maximum Inlet Temperature 130° F

*See Included CAT PUMPS® Service Manual for Higher Temperatures

CE131464 5 HP, 3 PH Motor Volts: 208 - 230 460 Amps: | 13.7 - 12.6 6.3

Pump Drive Belt

Pump Inlet 1"

Shipping Weight...... Approx. ____ lbs.

System Features

CAT PUMPS® Piston Pump belt driven by Leeson Motor

Heavy Duty Stainless Steel Baseplate & Belt Guard

Adjustable Motor Baseplate

Adjustable Balanced Relief Valve

Safety Pop Off Valve

2300# Gylcerin Filled Pressure Gauge

Units are Pre-Plumbed and Tested Prior to Shipment

PM820 Wash Prep System Specifications

DUPM820			
PSI	. 1000	Style	Prep Wash Unit
Capacity	. 10 GPM	Dimension	Approx. 39"L x 24"W x 21"H
Pump			
DUPM820-TS			
PSI	. 1000	StyleSIngle Gເ	un Prep Wash Unit on Stand with Tank
Capacity	. 10 GPM	Dimension	Approx. 45"L x 27"W x 70"H
Pump	. CC 820	Weight	Approx. 400 lbs.
DUPM820D			
PSI	. 1000	Style	. Double Gun Prep Wash Unit
Capacity	. 10 GPM	Dimension	Approx. 39"L x 24"W x 21"H
Pump	. CC 820	Weight	Approx. 313 lbs.
DUPM820D-TS			
PSI	. 1000	StyleDouble G	un Prep Wash Unit on Stand with Tank
			Approx. 45"L x 27"W x 70"H
Pump			
DUPM1010			
PSI	. 700	Style	Prep Wash Unit
			Approx. 41"L x 18"W x 19"H
Pump	. CC 1010	Weight	Approx. 320 lbs.

Common Specifications

		CEEM3710T	7.5 HP,	3 PH
Motor	CEEM2710T	Volts:	230	460
Motor Maximum Inlet Pressure		Amps:	18.8	9.4
Crankcase Capacity	40 oz.			
Pump Drive	Belt			
Pump Inlet	1"			
Pump Discharge	3/4" (3 qty.)			
Features Adjustable Pressu		Unloader Valve, Chemical Injector, Pressure		
Gauge, Safety Pop Off Valve, 50' High Pressure Hose, Trigger			Trigger	
	Style Spray Gun with: In:	sulated Extension	, Gun Swivel,	and Spray
	Nozzle; and Heavy Duty	Stainless Steel Ba	ase Plate. All	units are
	Pre-Assembled and test	ed prior to shippi	na.	

Installation

- 1. Select a location for your new unit. Place near floor drain, and electrical and water sources. Floor surface must be level.
- 2. Electrician to run power from main supply panel to motor starter or stop start station, and then to motor wiring box. Check motor wiring schematic to ensure wired for proper voltage. (Fig. 1)



Follow all local codes for proper fittings, conduit, and wire sizing.

- 3. Loosely fit clamps on low pressure hoses.
- 4. Install low pressure hose from supply (tank) to inlet of pump. (Fig. 2)

If you purchased a complete unit (PM820-TS or PM820D-TS) run low pressure hose from supply to inlet of tank.

- 5. Attach bypass line from regulator to tank. (see fig. 2) (See fig. 2A for PM1010)
- 6. Run high pressure line(s) from pump outlet to wash bay(s).



Hazardous Pressure. Do not discharge toward animals or humans.



Hazardous Pressure. Do not exceed pressure rating of pump.

7. Tighten all clamps and fittings.

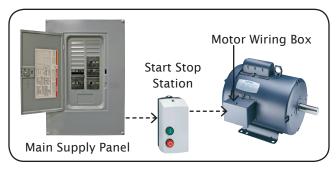


figure 1

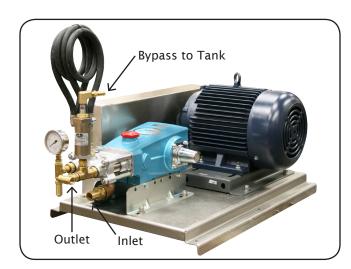


figure 2

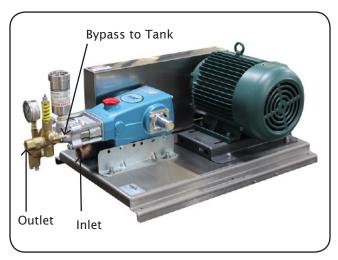


figure 2A

Operation

- 1. Check pump for proper oil level. The pump should be filled to or slightly above the red dot on the bubble gauge, located on the back of the pump. (Fig. 3)
- 2. Turn on water to the system and allow air to purge.
- 3. While holding the trigger gun open, start system.

(All units are tested at production and pressure should come up to specifications.)

When the trigger gun is closed, the balanced relief valve will bypass flow back to inlet of pump, or to tank. Pressure may fluctuate by 100 PSI when in bypass mode. Ensure that pressure is balanced with one or two guns.



Leaving the pump in bypass mode for more than a few minutes can damage pump due to friction heat buildup.

4. Pressure can be adjusted by turning the nut on the balanced relief valve. (Fig. 4, 4A)

> Clockwise More Pressure Counter-Clockwise..... Less Pressure



Pump oil must be changed per manufacturer's recommendations.



Do not run pump with frozen liquid.



figure 3

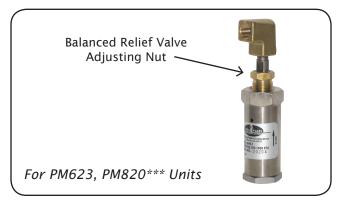


figure 4

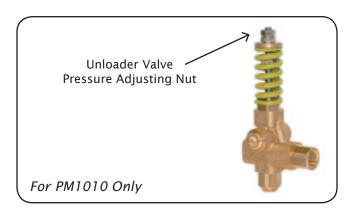


figure 4A

Maintenance & Storage

1. Change the oil after intial 50 hours. Use CAT PUMPS® Oil, part number CC6100-1 for 21 oz. bottles or CC6105-1 for 2.5 gallon jug. (Fig. 5)



This pump takes 40 oz.

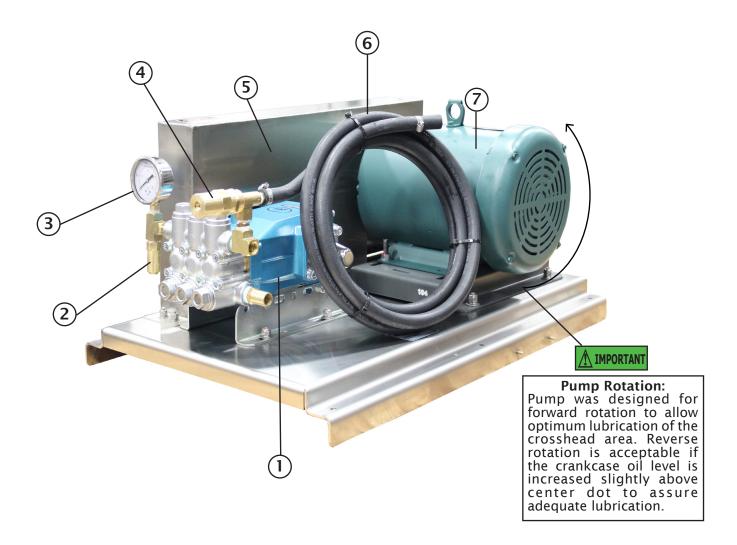
- 2. The oil should be changed every 500 hours. If other than CAT PUMPS® special custom blend multi-viscosity ISO68 hydraulic oil is used, change the oil every 300 hours.
- 3. Regulating Unloader Valve should be serviced or replaced when leaks occur or if not functioning properly.
- 4. For extended storage or between use in cold climates, drain all pumped liquids from pump and flush with antifreeze to prevent freezing and damage to the pump. When running antifreeze through system, open and close trigger gun so entire system is protected.



figure 5

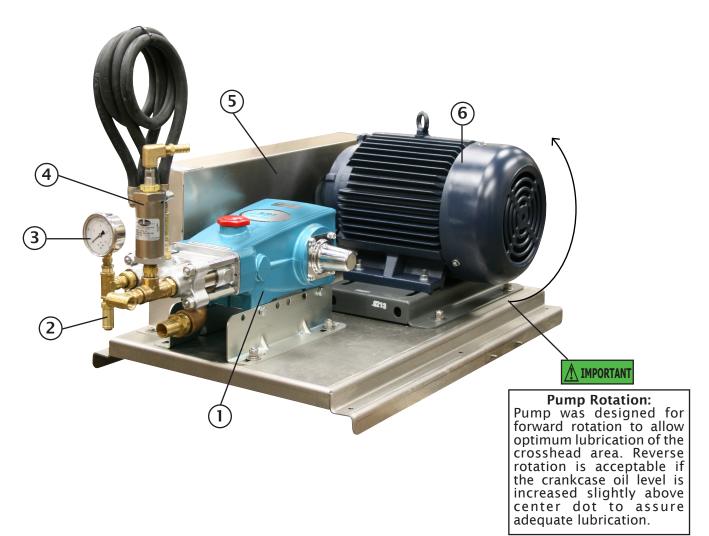
Please refer to the included CAT PUMPS® reference materials for additional information on the Maintenance & Storage of your CAT PUMPS® Pressure Washer.

Parts Breakdown: Model DUPM623



ltem	Part Number	Description
1	CC5CP6120	Cat Plunger Pump
2	GU22568	Safety Pop Off Valve, 1/4" Blue
3	AH2750-3	2300# Liquid Filled Pressure Gauge
4	NPST230	Balanced Relief Valve
5	GABX47	V-Belt, 47" (2 qty Not Visible)
6	GA3204-1425	10' of 3/4" bypass hose
7	CE131464	Leeson Motor, 5 HP, 3 PH

Parts Breakdown: Model DUPM820, DUPM820D



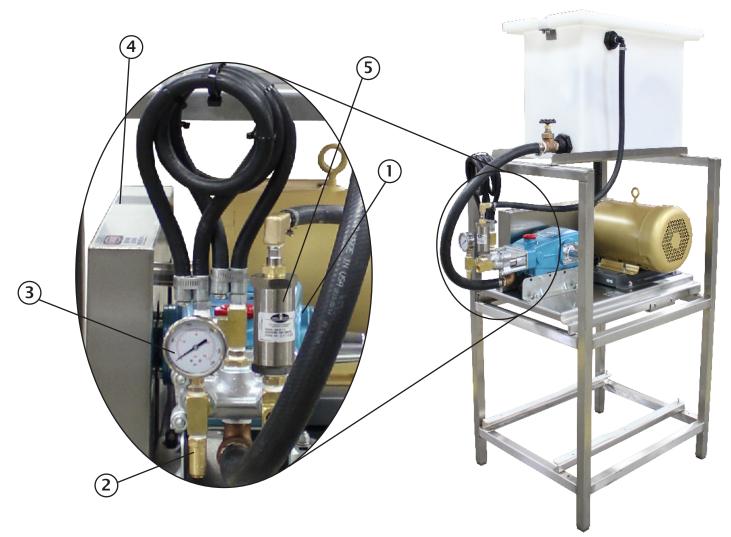
ltem	Part Number	Description
1	CC820	Cat Piston Pump
2	GU22531A	Safety Pop Off Valve
3	AH2750-3	2300# Liquid Filled Pressure Gauge
4	UPBR10-1.5	Balanced Relief Valve
5	GABX47	V-Belt, 47" (2 qty Not Visible)
6	CEEM3710T	Baldor Motor, 7.5 HP, 3 PH

Also may be included but not shown:

GA6HR25*	25' Black Wash Hose
NPST004-D42*	Nozzle Protector
NPST007-24*	23" Wand Extension w/ Grip
NPST1 500*	Spray Wand
NPST300*	Swivel, 3/8" Brass
SS1/8MEG2510*	Washjet Nozzle
HR561*	Hydrominder

^{*}Double quantity on DUPM820D

Parts Breakdown: Model DUPM820-TS, DUPM820D-TS



Item	Part Number	Description
1	CC820	Cat Piston Pump
2	GU22531A	Safety Pop Off Valve
3	AH2750-3	2300# Liquid Filled Pressure Gauge
4	GABX47	V-Belt, 47" (2 qty Not Visible)
5	UPBR10-1.5	Balanced Relief Valve
6	CEEM3710T	Baldor Motor, 7.5 HP, 3 PH

Also may be included but not shown:

GA6HR25*	25' Black Wash Hose
NPST004-D42*	Nozzle Protector
NPST007-24*	23" Wand Extension w/ Grip
NPST1500*	Spray Wand
NPST300*	Swivel, 3/8" Brass
SS1/8MEG2510*	Washjet Nozzle
HR561*	Hydrominder

^{*}Double quantity on DUPM820D-TS



Notice Regarding Manufacturer's Limited Warranty

Dultmeier Sales Limited Liability Company (hereinafter Dultmeier), notifies you that component part(s) carry a manufacturer's limited warranty provided by the manufacturer of said component part(s). These warranties do not pertain to normal wear of component part(s) that may occur within any specified period. While Dultmeier is not the manufacturer of any of the component part(s), Dultmeier will assist you in processing any and all manufacturer's warranty claim if applicable and available. Any and all manufacturer's claims must be submitted in writing to the manufacturer within the warranty periods provided by the manufacturer.

Defective component part(s) that are to be considered for manufacturer's limited warranty must be returned to the manufacturer by prepaid shipment with the applicable manufacturer's limited warranty period. If the component part(s) are deemed to be defective under the manufacturer's warranty, Dultmeier will assist in obtaining a replacement or repair of the component part(s). Said component part(s) will be returned F.O.B. Omaha, Nebraska. Replacement or repair shall be the exclusive remedy for any breach of warranty. Labor for installation, either with respect to original or replacement part or components, is not covered under the manufacturer's limited warranty.

Neither the manufacturer nor Dultmeier warrants loss of income or consequential damages for injury or commercial loss resulting from any breach of warranty or warranties stated above.

The manufacturer's limited warranty as stated does not apply to component part(s) which have been improperly installed, misused, altered, neglected, abused or not installed, adjusted, maintained, or used in accordance with applicable codes and ordinances and in accordance with the manufacturer's specifications as to such factors.

Notwithstanding Dultmeier's willingness to assist in the processing of the manufacturer's limited warranty, Dultmeier makes no warranty against infringement of the like, makes no warranty of merchantability, makes no warranty of fitness for a particular purpose, and makes no other warranty, express or implied, including implied warranty arising from the course of dealing or usage of trade.

Compliance with all local, state and federal codes regarding the installation and operation of said equipment, parts and components shall be the responsibility of the purchaser. The rights and obligations of the parties shall be governed by the laws of the State of Nebraska.

Dultmeier Sales • 1-800-228-9666 Omaha, NE • 1-800-553-6975 Davenport, IA

If you have any questions or concerns about condition of this unit, please contact us before operating.

Overall Condition