



## Prep Wash Systems with CAT PUMPS®

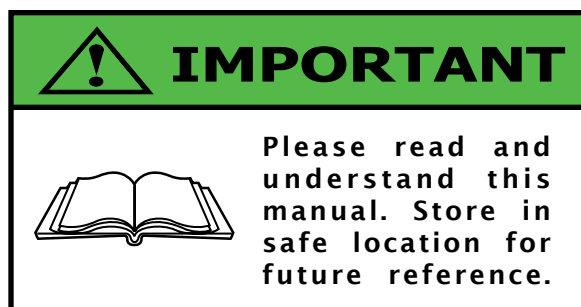
DU PM310-5 & DU PM310-51  
DU PM310-5/1 & DU PM310-5/2



Owner's Manual #0782 101711

Serial Number:

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.



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



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



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



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:*

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



**Check for  
Proper Rotation**

Pump was designed for forward rotation to allow optimum lubrication of the crosshead area. Reverse rotation is acceptable if the crankcase oil level is increased slightly above center dot to assure adequate lubrication.



**Burn Hazard  
Do Not Touch An  
Operating Motor**

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

## Prep Wash System Specifications

### DU PM310-5

Style ..... Prep Wash Unit, 3 Phase  
 Motor ..... CE M3615T  
 Dimensions ..... Approx. 33"L x 21"W x 16"H  
 Shipping Weight ..... Approx. 100lbs.

CE EM3615T	5 HP, 3 PH	
Volts:	208 - 230	460
Amps:	13.9 - 13.4	6.7

### DU PM310-51

Style ..... Prep Wash Unit, 1 Phase  
 Motor ..... CE 131538  
 Dimensions ..... Approx. 33"L x 23"W x 16"H  
 Shipping Weight ..... Approx. 105lbs.

CE 131538	5 HP, 1 PH	
Volts:	230	
Amps:	23	

### DU PM310-5/1

Style ..... Single Prep Unit on Stand with Tank  
 Motor ..... CE M3615T  
 Dimensions ..... Approx. 33"L x 33"W x 74"H  
 Shipping Weight ..... Approx. 200lbs.

CE EM3615T	5 HP, 3 PH	
Volts:	208 - 230	460
Amps:	13.9 - 13.4	6.7

### DU PM310-5/2

Style ..... Double Prep Unit on Stand with Tank  
 Motor ..... CE M3615T  
 Dimensions ..... Approx. 33"L x 33"W x 74"H  
 Shipping Weight ..... Approx. 300lbs.

CE EM3615T	5 HP, 3 PH	
Volts:	208 - 230	460
Amps:	13.9 - 13.4	6.7

## Common Specifications

Capacity ..... 4 GPM  
 PSI ..... 1800  
 Maximum Inlet Pressure ..... 60 PSI  
 Maximum Inlet Temperature ..... 130° F

\*See Included CAT PUMPS® Service Manual for Higher Temperatures

Pump ..... CC 310S  
 Crankcase Capacity ..... 18 oz.  
 Pump Drive ..... Belt  
 Pump Inlet ..... 1/2"  
 Pump Discharge ..... 3/8"

Features ..... Heavy Gauge Stainless Steel Baseplate & Belt Guard, Adjustable Motor Baseplate, Unloader Valve for Pressure Relief, Safety Pop Off Valve, Glycerin-Filled Pressure Gauge, 50' High Pressure Gun Hose, Trigger Style Spray Gun with: Insulated Extension & Gun Swivel. All units are Pre-Plumbed & Tested Prior to Shipment.

## Maintenance & Storage

1. Change the oil after initial 50 hours. Use CAT PUMPS® Oil, part number CC 6100-1 for 21 oz. bottles or CC 6105-1 for 2.5 gallon jug. (Fig. 1)



**IMPORTANT** This pump takes 18 oz.

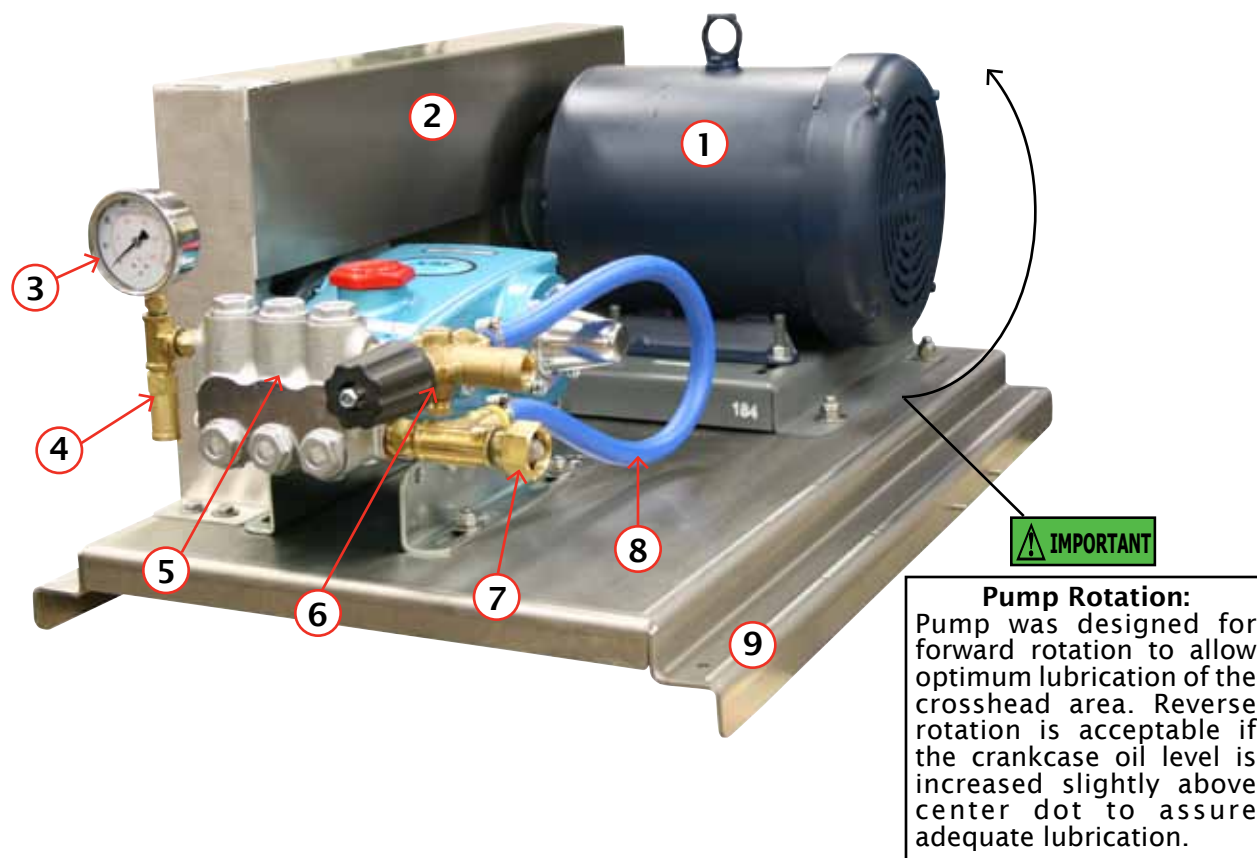
2. The oil should be changed every 500 hours. If other than CAT PUMPS® special custom blend multi-viscosity ISO68 hydraulic oil is used, change the oil every 300 hours.
3. Regulating Unloader Valve should be serviced or replaced when leaks occur or if not functioning properly.
4. For extended storage 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 1*

***Please refer to the included CAT PUMPS® reference materials for additional information on the Maintenance & Storage of your CAT PUMPS® Prep Wash System.***

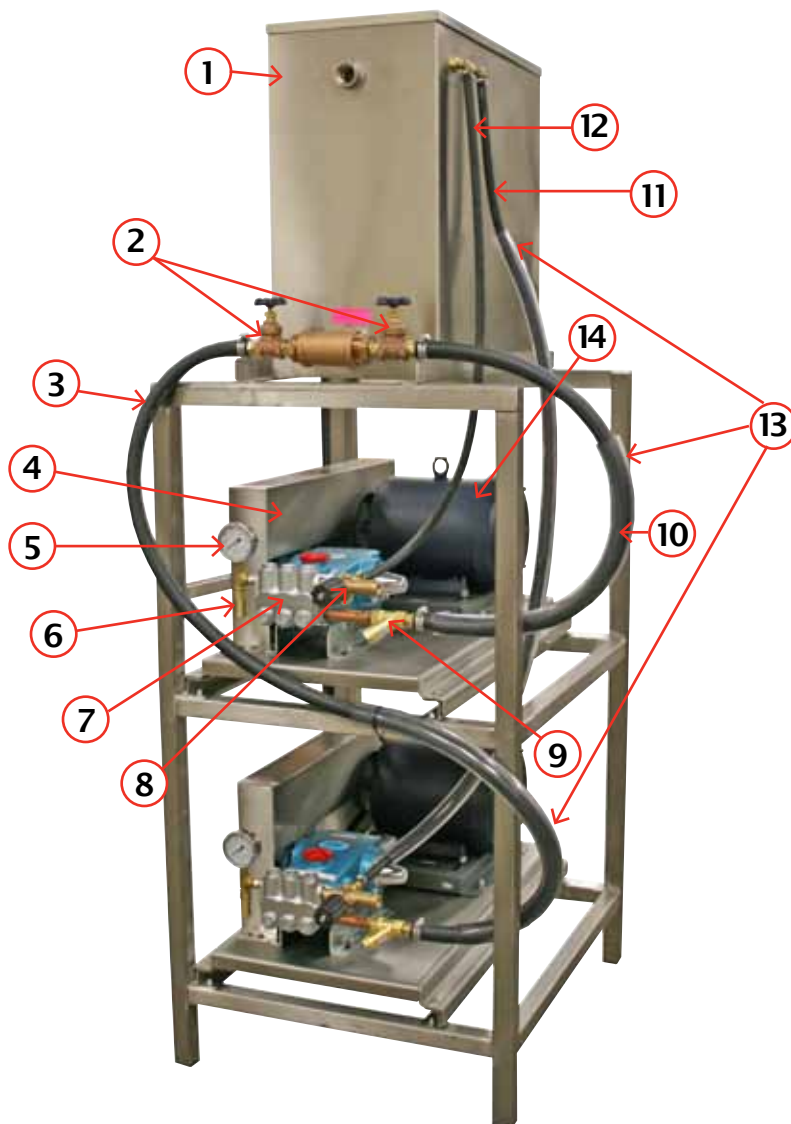
## Parts Breakdown: DU PM310-5



Item	Part Number	Description
1	CE EM3615T	Motor 5 HP 3 PH
	CE 131538	Motor 5 HP 1 PH (Model PM310-51 Only)
2	GA B45	V-Belt (2 qty.) (Not Visible, Located Inside Belt Guard)
3	AH 2750-4	3600# Liquid Filled Pressure Gauge
4	GU 22568	Safety Pop Off Valve
5	CC 310S	CAT PUMPS® Plunger Pump
6	NP ST261	Suttner Unloader Valve
7	HY 3800-35	Garden Hose Strainer
8	GA 3204EB-3/8	Black Adaptaflex Hose, 2 Braid, 3/8"
9	DS BP1630SS	Stainless Steel Baseplate
	DU 2610D	Wheeled Cart (Optional)
	GA 6HR50	Black Wash Hose, 3/8" x 50' (Not Shown)
	NP ST300	Brass Swivel (Not Shown)
	NP ST1500	Zero Leak Spray Wand (Not Shown)
	NP ST007-18MF	Wand Extension with Grip, 18" (Not Shown)



## Parts Breakdown: DU PM310-5/2



Item	Part Number	Description
1	DU WT15B-1	Stainless Steel Tank with Lid
2	TW GV-3/4	Gate Valve, Bronze, 3/4"
3	GA 3204EB-3/4	Black Adaptaflex Hose, 4 Braid, 3/4"
4	GA B45	V-Belts (Not Visible, Located inside Belt Guards)
5	AH 2750-4	3600# Liquid Filled Pressure Gauge
6	GU 22568	Safety Pop Off Valve
7	CC 310S	CAT PUMPS® Plunger Pump
8	NP ST261	Suttner Unloader Valve
9	DE S4B-80	Strainer, Bronze, 1/2"
10	GA 3204EB-3/4	Black Adaptaflex Hose, 4 Braid, 3/4"
11	GA 3204EB-3/8	Black Adaptaflex Hose, 2 Braid, 3/8"
12	GA 3204EB-3/8	Black Adaptaflex Hose, 2 Braid, 3/8"
13	TF 11	Vinyl Tubing
14	CE EM3615T	Motor 5 HP 3 PH
	HR 525	Hydrominder (Not Visible, Located inside Tank)
	GA 6HR50	Black Wash Hose, 3/8" x 50' (Not Shown)
	NP ST300	Brass Swivel (Not Shown)
	NP ST1500	Zero Leak Spray Wand (Not Shown)
	NP ST007-18MF	Wand Extension with Grip, 18" (Not Shown)
	SS 1/8MEG2506	SA Washjet Nozzle L/ Vane (Not Shown)



## 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**



## Production Checklist

<input type="checkbox"/> OK <input type="checkbox"/> NA	Oil Level	<input type="checkbox"/> OK <input type="checkbox"/> NA	Pop-Off Valve Set _____ PSI
<input type="checkbox"/> OK <input type="checkbox"/> NA	Clamps Tight	<input type="checkbox"/> OK <input type="checkbox"/> NA	Unloader Valve Locked
<input type="checkbox"/> OK <input type="checkbox"/> NA	Bolts Tight & Anti-Seized	<input type="checkbox"/> OK <input type="checkbox"/> NA	PSI _____
<input type="checkbox"/> OK <input type="checkbox"/> NA	Belts Tight	<input type="checkbox"/> OK <input type="checkbox"/> NA	Pump RPM _____
<input type="checkbox"/> OK <input type="checkbox"/> NA	Pulleys Aligned & Torqued to Specifications	<input type="checkbox"/> OK <input type="checkbox"/> NA	Motor Amps _____
<input type="checkbox"/> OK <input type="checkbox"/> NA	Fittings Straight	<input type="checkbox"/> OK <input type="checkbox"/> NA	Motor Wired For _____
<input type="checkbox"/> OK <input type="checkbox"/> NA	Tested	<b>Accessories</b>	
<input type="checkbox"/> OK <input type="checkbox"/> NA	Winterized	<input type="checkbox"/> OK <input type="checkbox"/> NA	Safety Pop Off Valve
<input type="checkbox"/> OK <input type="checkbox"/> NA	_____	<input type="checkbox"/> OK <input type="checkbox"/> NA	Trigger Gun     1     2
<input type="checkbox"/> OK <input type="checkbox"/> NA	_____	<input type="checkbox"/> OK <input type="checkbox"/> NA	High Pressure Hose
<input type="checkbox"/> OK <input type="checkbox"/> NA	_____	<input type="checkbox"/> OK <input type="checkbox"/> NA	Injector / Injector Hose
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<input type="checkbox"/> OK <input type="checkbox"/> NA	_____	<input type="checkbox"/> OK <input type="checkbox"/> NA	Float Valve Part # _____
<input type="checkbox"/> OK <input type="checkbox"/> NA	_____	<input type="checkbox"/> OK <input type="checkbox"/> NA	Leveling Bolts

Built By \_\_\_\_\_

Checked By \_\_\_\_\_

## Customer Checklist

<input type="checkbox"/> OK <input type="checkbox"/> NA	Oil Level To Manufacturer's Specifications
<input type="checkbox"/> OK <input type="checkbox"/> NA	Accessories Included
<input type="checkbox"/> OK <input type="checkbox"/> NA	Shipping Container Was In Good Shape
<input type="checkbox"/> OK <input type="checkbox"/> NA	Overall Condition

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