



Economy Wash Package

DU EWS10



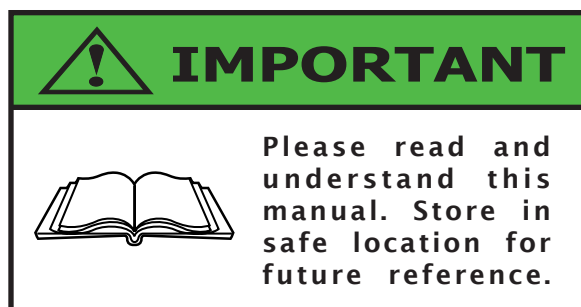
Owner's Manual #0803

Customer Number:

Serial Number:

Model 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.

Table of Contents

Safety Information	1
Specifications	2
Installation.....	3
Maintenance & Storage	4
Parts Breakdown	5-6
Warranty Information	7
Checklist	8
Wiring Diagram	

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.



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.

Economy Wash Package Specifications

Model(s)	DU EWS10
Style	Economy Wash Package
Capacity	3 GPM
PSI	1000
Maximum Inlet Pressure.....	60 PSI
Maximum Inlet Temperature.....	130° F
*See Included CAT PUMPS® Service Manual for Higher Temperatures	
Motor	CC 8052 :: 2 HP / 1 PH, 120 Volts / 20 Amps
Pump	CC 2SF30ES
Crankcase Capacity.....	11.83 oz.
Pump Drive	Direct
Dimensions.....	Approx. 16"W x 32L" x 48H"
Shipping Weight.....	Approx. 120 lbs.
Pump Inlet	1/2"
Pump Discharge.....	3/8"

System Features & Options

CAT PUMPS® Plunger Pump with Regulating Unloader
 2 HP, 1 PH, TEFC, C-Face Motor
 25' GFCI Power Cord
 Safety Pop Off Valve
 Chemical Injector
 Trigger Spray Gun with: Gun Swivel, Washjet Nozzle, Nozzle Protector, and 18" Extension with Grip
 25' High Pressure Wash Hose
 Stainless Steel Coin Meter or Optional EP1 Selector Switch
 Stainless Wall Boom
 Chemical Tank
 Bay Instruction Signs
 All Units are Pre-Plumbed, Pre-Wired, and Tested
 Options include Wax or Foam Brush

Installation

1. Pump inlet and chemical tank are supplied with a single 3/4" female garden hose fitting. Connect a garden hose to the pump inlet and secure.



Pressure at inlet of pump should not exceed 60 PSI.

2. Now connect high pressure bay hose (see fig. 3) to pump outlet (see fig. 1-A)
3. Make sure the power switch is in the OFF position. (see fig. 2) Plug in unit to a 120 volt, 20 amp power source.



If using an extension cord, use only UL approved indoor/outdoor, 3-wire, grounding type cords. The cord must be rated to support amp draw.

4. Turn on the water supply and check for leaks.
5. While holding trigger gun open start unit. All units are pretested and pressure should come up to specifications. (1000 PSI) (see fig. 3) When trigger gun is closed unloader will bypass flow back to inlet of pump. (Optional) Gauge should read 0 PSI when in bypass mode.



Leaving pump in bypass mode for an extended amount of time can damage pump due to friction heat buildup.

6. Pressure can be adjusted by turning handle in regulating unloader valve. (see fig. 1-B) Turn handle clockwise to increase pressure or counter-clockwise to decrease pressure. Care should be taken not to exceed maximum pump pressure of 1000 PSI.



Damage to the pump and/or motor can occur if maximum pressure is exceeded.

7. The chemical feed design utilizes an upstream Injection System. This allows you to apply chemical with high pressure. The water bypass screw will need to be adjusted due to varying inlet pressures. (see fig. 1)

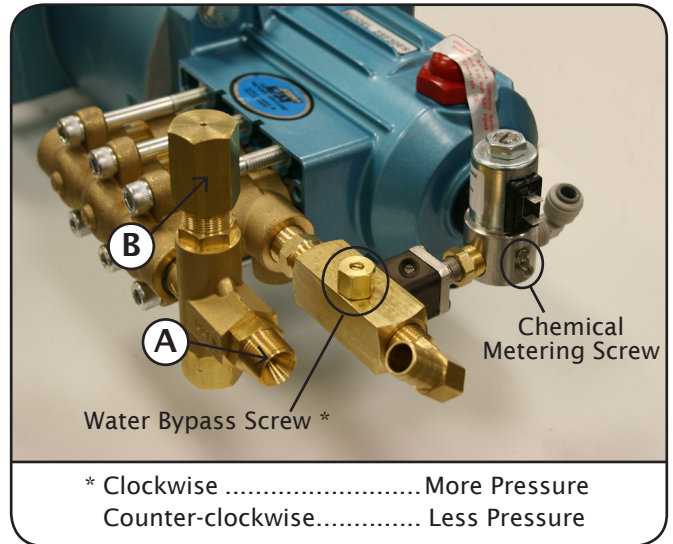


figure 1



figure 2



figure 3

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. 4)



This pump takes 11.83 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. 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.



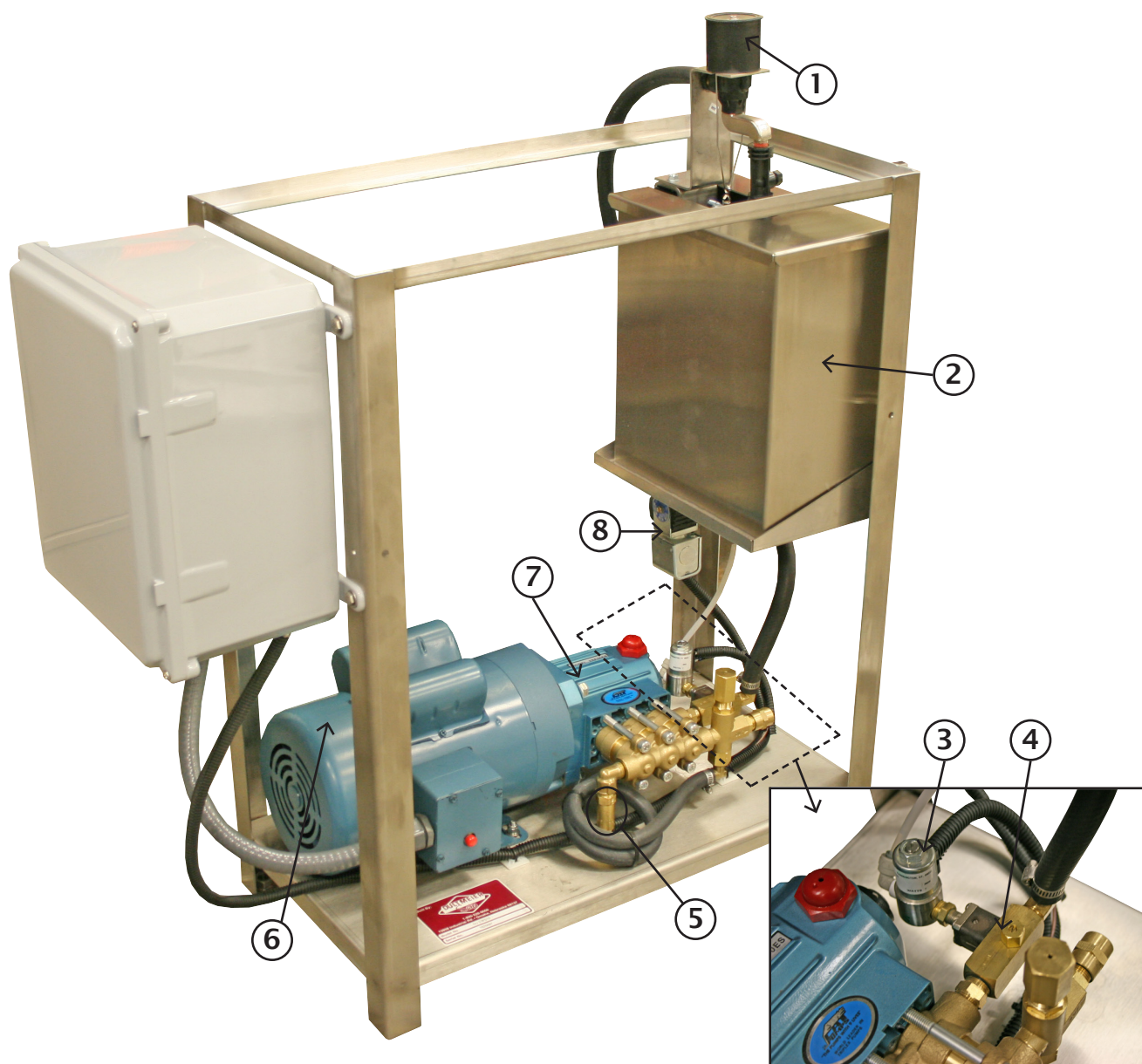
figure 4

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

Dultmeier Sales, LLC

1.800.228.9666 • Fax: 1.402.333.5546 • 13808 Industrial Road Omaha, NE 68137
 1.800.553.6975 • Fax: 1.319.386.5448 • 601 West 76th Street Davenport, IA 52806
<http://www.dultmeier.com> • dultmeier@dultmeier.com

Parts Breakdown: DU EWS10



Item	Part Number	Description
1	HR 506	Hydrominder
2	DD 61012	Stainless Steel Tank w/ Lid & Shelf
3	KI 3X293	Solenoid Valve w/ Meter
4	DE 203B-2450	Chemical Injector
5	GU 22531A	Safety Pop Off Valve
6	CC 8052	Motor, 2 HP 1 PH
7	CC 2SF30ES	Cat Superflow Pump w/ Unloader
8	DE A414P-24	Solenoid, 24V, Normally Closed

Parts Breakdown: DU EWS10



Item	Part Number	Description
9	GA 6HR25	25' Black Wash Hose, 3/8"
10	NP ST004-D42	Nozzle Protector
	SS 1/8MEG25055	Washjet Nozzle (Not Visible)
11	BC 291G-18BK	18" Black Flex Wand Extension
12	NP ST1500	Spray Wand
13	SM 900-3/8	Straight Swivel
14	DU 27234	Stainless Steel Wall Boom w/ Bracket
15	DU 10CD	Stainless Steel Coin Meter
16	ND 120B	Bay Sign, Wash Instructions
		(Please Note: Bay Sign will vary depending on your equipment's design.)
	ND 12200	Bay Sign, High Pressure (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.

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	Fittings Straight	<input type="checkbox"/> OK <input type="checkbox"/> NA	Pump RPM _____
<input type="checkbox"/> OK <input type="checkbox"/> NA	Tested	<input type="checkbox"/> OK <input type="checkbox"/> NA	Motor Amps _____
<input type="checkbox"/> OK <input type="checkbox"/> NA	Winterized	<input type="checkbox"/> OK <input type="checkbox"/> NA	Motor Wired For _____
<input type="checkbox"/> OK <input type="checkbox"/> NA	Electrical Decals	Accessories	
<input type="checkbox"/> OK <input type="checkbox"/> NA	Wiring Diagram	<input type="checkbox"/> OK <input type="checkbox"/> NA	Safety Pop Off Valve
<input type="checkbox"/> OK <input type="checkbox"/> NA	Overload Set	<input type="checkbox"/> OK <input type="checkbox"/> NA	Trigger Gun 1 2
<input type="checkbox"/> OK <input type="checkbox"/> NA	Fuse # _____	<input type="checkbox"/> OK <input type="checkbox"/> NA	High Pressure Hose
<input type="checkbox"/> OK <input type="checkbox"/> NA	Solenoids	<input type="checkbox"/> OK <input type="checkbox"/> NA	Injector / Injector Hose
<input type="checkbox"/> OK <input type="checkbox"/> NA	Hydrominder	<input type="checkbox"/> OK <input type="checkbox"/> NA	Gauge
<input type="checkbox"/> OK <input type="checkbox"/> NA	_____	<input type="checkbox"/> OK <input type="checkbox"/> NA	_____

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	Electric Cord
<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.

Basic EP1 Wiring Instructions

Basic EP1 Wiring

1. Run Black wire from EP1 to #4 in Electrical Panel.
2. Run Red wire, the Motor Starter wire, to #3 in Electrical Panel.
3. Run Brown wire, the Soap wire, to #6 in Electrical Panel.
4. Run Blue wire, the Rise Solenoid/Main Water, to #5 in Electrical Panel.

Use the male plug provided at EP1.

Hook the other end to the Terminal Blocks in Electrical Panel.



Dultmeier Sales, LLC

1.800.228.9666 · Fax: 1.402.333.5546 · 13808 Industrial Road **Omaha, NE** 68137
1.800.553.6975 · Fax: 1.319.386.5448 · 601 West 76th Street **Davenport, IA** 52806
<http://www.dultmeier.com> · dultmeier@dultmeier.com