CANPUMP CE 3648 GP

CANPUMP CE 3648 G Pressure Washer Pump Instruction Manual

Model: CE 3648 GP

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your CANPUMP CE 3648 G Triplex Pressure Washer Pump. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the unit.

Image: The CANPUMP CE 3648 G Triplex Pressure Washer Pump, showing its brass manifold and black crankcase.

Product Overview

The CANPUMP CE 3648 G is a high-performance triplex plunger pump designed for commercial power washing applications. It features durable construction and an external unloader valve for precise pressure control.

- **Construction:** Forged brass and anodized aluminum with cooling fins.
- **Plungers:** 18 mm ceramic-coated solid stainless steel.
- **Seals:** German-made packing seals.
- **Unloader Valve:** Italian-made detachable and pressure-adjustable external bypass unloader valve with water filter.
- **Oil Inspection:** Integrated sight glass for easy oil level checks.

Image: A cutaway view illustrating the internal components of the CANPUMP CE 3648 G pump, highlighting the plunger mechanism and brass manifold.

Setup and Installation

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts listed in the manual are present.
2. **Oil Level Check:** The pump is pre-filled with SAE 15W-40 oil. Before first use, check the oil level using the sight glass. Ensure the oil level is within the recommended range.
3. **Mounting:** Securely mount the pump to a compatible 13 HP gas engine with a 1-inch horizontal shaft. Ensure all mounting bolts are tightened to the manufacturer's specifications.
4. **Unloader Valve Assembly:** Attach the detachable external bypass unloader valve. Ensure it is securely bolted to the pump manifold. The unloader valve includes a built-in water filter.
5. **Water Inlet Connection:** Connect a standard ¾-inch garden hose to the pump's water inlet. Ensure the connection is tight to prevent air leaks.
6. **High-Pressure Outlet Connection:** Connect your high-pressure hose to the pump's quick-connect outlet.
7. **Bypass Line:** Connect the bypass line from the unloader valve to a suitable water reservoir or buffer tank. This ensures cold water continuously flows through the pump when the trigger is released, preventing overheating.

Image: Included accessories such as extra O-rings, a bypass hose, and the unloader valve assembly.

Operating Instructions

1. **Water Supply:** Ensure a continuous and adequate water supply to the pump. Never run the pump dry.
2. **Engine Start-up:** Start the gas engine according to its manufacturer's instructions.
3. **Purging Air:** Before applying pressure, squeeze the trigger on your spray gun to allow water to flow through the system and purge any trapped air. Continue until a steady stream of water emerges.
4. **Adjusting Pressure:** The unloader valve allows for pressure adjustment. Turn the adjustment knob on the unloader valve to increase or decrease the output pressure to your desired level.
5. **Operation:** Once the system is primed and pressure is set, you can begin power washing. When the spray gun trigger is released, the unloader valve diverts water through the bypass line, reducing pressure on the pump.
6. **Shut Down:** To shut down, release the spray gun trigger, turn off the engine, and then turn off the water supply. Relieve any remaining pressure in the system by squeezing the spray gun trigger.

Image: An individual operating a pressure washer, demonstrating the application of the pump for cleaning tasks.

Maintenance

- **Oil Changes:** Regularly check the oil level using the sight glass. Change the SAE 15W-40 oil after the first 50 hours of operation, and then every 100-200 hours or annually, whichever comes first. Refer to the exploded view and parts

list for drain plug location.

- **O-Ring and Seal Inspection:** Periodically inspect all O-rings and seals for wear or damage. Replace as necessary using the provided spare O-rings or genuine CANPUMP replacement parts.
- **Water Filter Cleaning:** The unloader valve has a built-in water filter. Inspect and clean this filter regularly to prevent debris from entering the pump.
- **Winterization:** In freezing temperatures, drain all water from the pump and hoses, or use a pump protector/antifreeze solution to prevent damage.

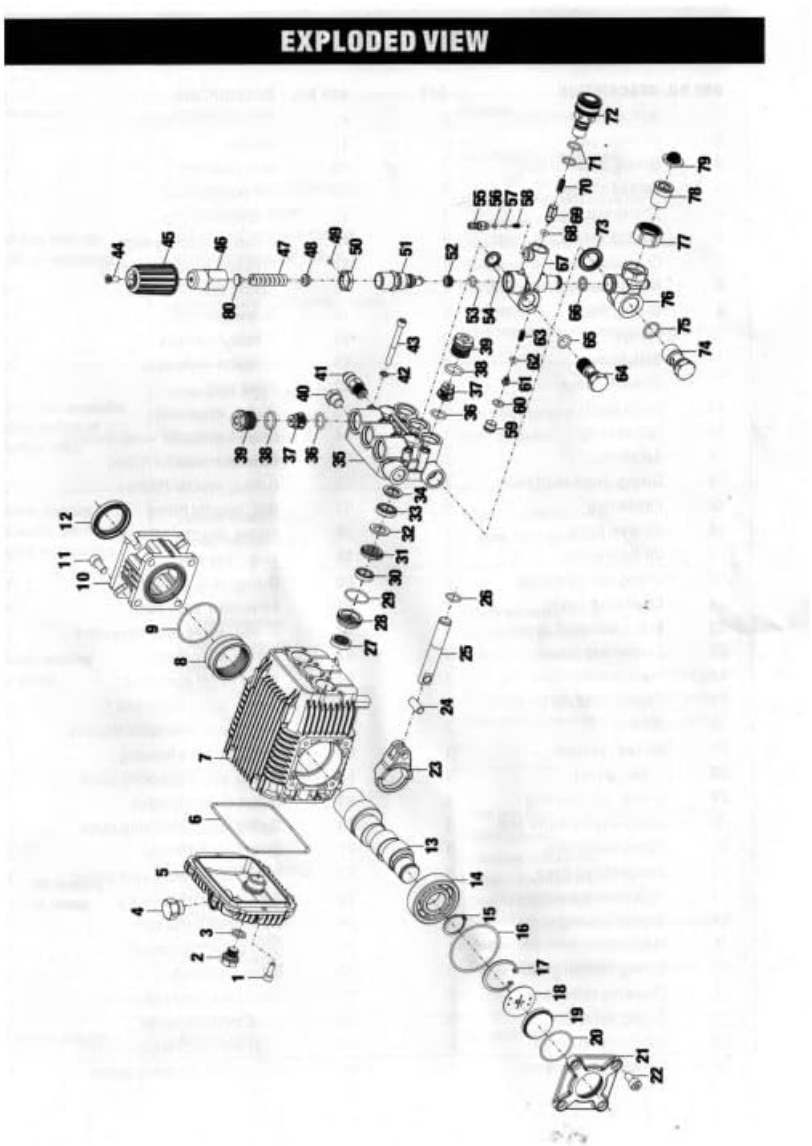

Image: Exploded view diagram showing all internal and external components of the pump with numbered references.

PARTS LIST

REF NO.	DESCRIPTION	QTY	REF NO.	DESCRIPTION	QTY
1	Bolt, crankcase cover	6	41	Thermal relief valve	1
2	Oil drain plug	1	42	Washer	8
3	O-ring, oil drain plug	1	43	Bolt, manifold	8
4	Vented oil cap	1	44	Screw, knob cap	1
5	Crankcase cover	1	45	Plastic knob cap	1
6	Gasket, crankcase cover	1	46	Pressure djusting knob	1
7	Crankcase	1	47	Pressure adjusting spring	1
8	Needle bearing	1	48	Spring seat	1
9	O-ring, flang	1	49	Screw, jam nut	1
10	Flange	1	50	Pressure jam nut	1
11	Bolt, flange	4	51	Unloader vavle assy	1
12	Oil seal, flange	1	52	Valve seat	1
13	Crankshaft	1	53	O-ring, valve seat	1
14	Ball bearing	1	54	Gasket, unloader valve housing	1
15	Scrap ring	1	55	Detergent injector fitting	1
16	O-ring, crankshaft cover	1	56	O-ring, injector fitting	1
17	Retain ring	1	57	Ball, injector fitting	1
18	Oil level plate	1	58	Spring, injector fitting	1
19	Oil sight glass	1	59	Plug, easy start	1
20	O-ring, oil sight glass	1	60	O-ring, plug, easy start	1
21	Crankshaft cover	1	61	Valve core, easy start	1
22	Bolt, crankshaft cover	4	62	O-ring, valve core, easy start	1
23	Connecting rod	3	63	Spring, easy start	1
24	Pin	3	64	Water outlet banjo bolt	1
25	Ceramic coating plunger	3	65	O-ring, outlet banjo bolt	1
26	O-ring	3	66	O-ring, unloader valve housing	1
27	Oil seal, plunger	3	67	Unloader valve housing	1
28	Locating ring	3	68	O-ring, outlet checking valve	1
29	O-ring, locating ring	3	69	Outlet checking valve	1
30	Low pressure water seal	3	70	Spring, outlet checking valve	1
31	Compression ring	3	71	O-ring, outlet fitting	2
32	Compression flake	3	72	Quick disconnect outlet fitting	1
33	High pressure water seal	3	73	Gasket, bypass housing	1
34	Supporting ring	3	74	Water Inlet banjo bolt	1
35	Manifold	1	75	O-ring, inlet banjo bolt	1
36	O-ring, checking valve	6	76	Bypass housing	1
37	Checking valve assy	6	77	Swivel nut, inlet connector	1
38	O-ring, valve cap	6	78	Body, inlet connector	1
39	Checking valve oap	6	79	Filter washer, inlet connector	1
40	Outlet plug, manifold	1	80	Upper seat, adjusting spring	1

Image: Detailed parts list corresponding to the exploded view, with reference numbers, descriptions, and quantities.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No water flow or low pressure	• Insufficient water supply • Air in the pump/hoses • Clogged inlet filter • Worn seals/O-rings	• Ensure adequate water supply • Purge air from the system • Clean the inlet filter • Inspect and replace worn seals/O-rings
Pump making unusual noise	• Low oil level • Air in the system • Loose components	• Check and add oil • Purge air from the system • Inspect and tighten all connections
Oil leakage	• Damaged oil seals • Loose crankcase bolts	• Replace oil seals • Tighten crankcase bolts

Problem	Possible Cause	Solution
Unloader valve not adjusting pressure correctly	• Debris in valve • Damaged spring or seal	• Disassemble and clean unloader valve • Inspect and replace internal components

SPECIFICATIONS

Model	CE 3648 GP
Pressure	3600 PSI (248 bar)
Flow Rate	4.8 US GPM (18.1 L/min)
Power Requirement	13 HP Gas Engine
RPM	Full speed (Engine dependent)
Pump Mechanism	Triplex Plunger
Shaft Size	1 inch (Horizontal)
Inlet Connection	¾-inch Standard Garden Hose
Outlet Connection	Quick-Connect
Dimensions (L x W x H)	14 x 10.5 x 9.5 inches
Item Weight	28 pounds

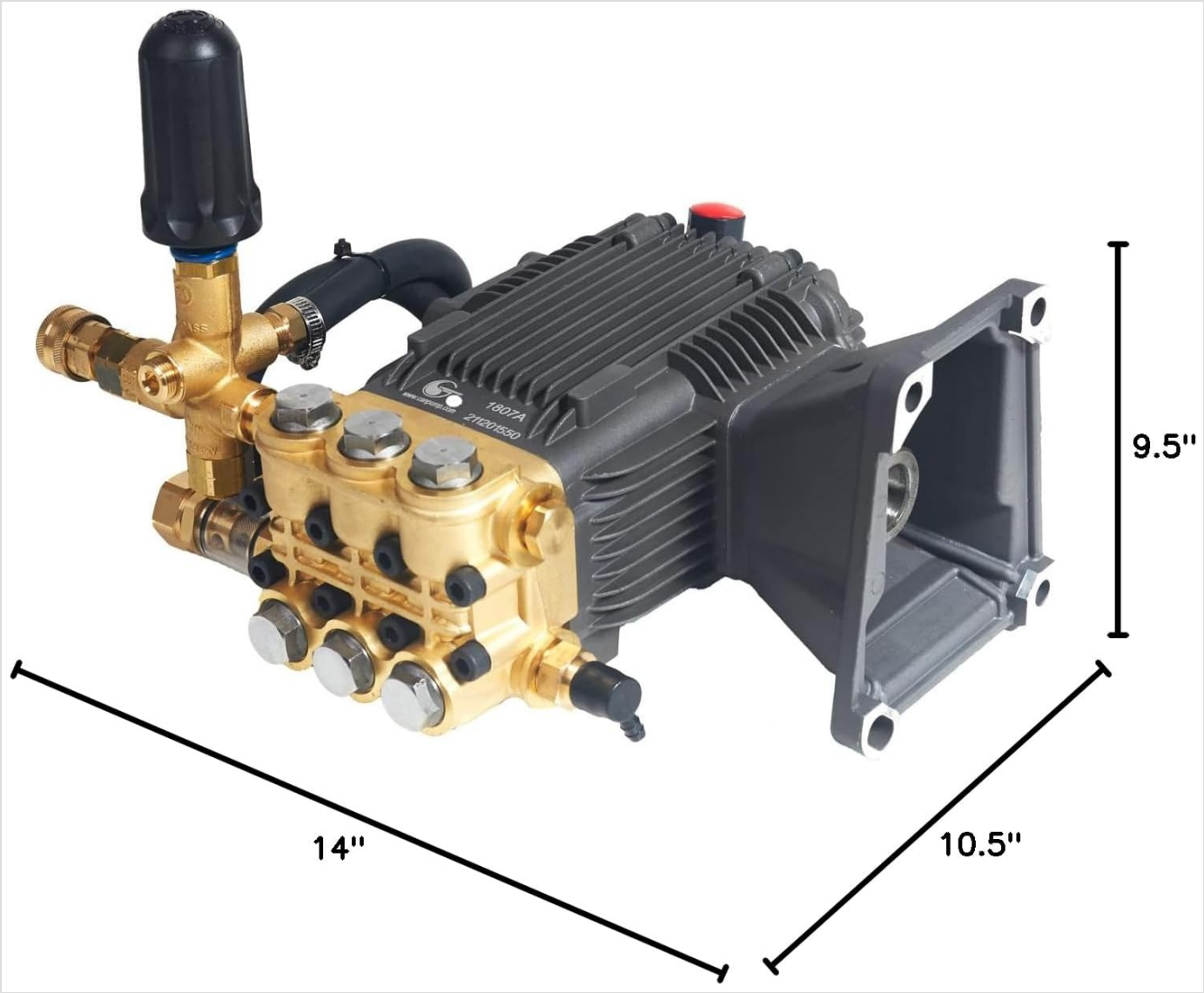

Image: Diagram illustrating the physical dimensions (length, width, height) of the CANPUMP CE 3648 G pump.

Support Information

For technical assistance, spare parts, or any inquiries regarding your CANPUMP CE 3648 G Pressure Washer Pump, please contact our support team.

- **Availability:** 7 days a week, 5 hours a day.
- **Contact Methods:** Toll-free phone, email, and live chat support.
- **Location:** Support services are provided from Canada.

Please refer to the contact information provided with your purchase documentation or visit the official CANPUMP website for current support details.