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## CAT Pumps 340

# Cat Pump 340 Direct Drive Instruction Manual

Model: 340

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of the Cat Pump 340 Direct Drive. This pump is designed for high-pressure applications, delivering 4.0 GPM at 1800 PSI with a 1725 RPM BBP motor. Please read this manual thoroughly before operating the pump to ensure proper use and to prevent damage or injury.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent personal injury or damage to the equipment.

- Ensure all connections are secure and leak-free before operation.
- Do not operate the pump without proper fluid supply. Dry running can cause severe damage.
- Wear appropriate personal protective equipment (PPE), including eye protection, during operation and maintenance.
- Disconnect power before performing any maintenance or service.
- Keep hands and clothing clear of moving parts.
- Do not exceed the maximum rated pressure or flow for the pump.
- Ensure adequate ventilation around the pump during operation.

## 3. SETUP AND INSTALLATION

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Proper installation is critical for the performance and longevity of your Cat Pump 340.

### 3.1 Unpacking and Inspection

Carefully remove the pump from its packaging. Inspect for any visible damage that may have occurred during shipping. Report any damage to the carrier immediately.

### 3.2 Mounting

Mount the pump on a stable, level surface capable of supporting its weight and the forces generated during operation. Use appropriate fasteners to secure the pump firmly.



**Figure 1:** Cat Pump 340 Direct Drive. This image displays the compact design of the pump, featuring its blue housing, red pressure regulator, and stainless steel manifold with multiple ports for fluid connections. The pump is mounted on a sturdy metal base.

### 3.3 Plumbing Connections

- **Inlet:** Connect the inlet line to a reliable water source. Ensure the inlet line is adequately sized to prevent cavitation. A filter is recommended to prevent debris from entering the pump.
- **Outlet:** Connect the outlet line to your high-pressure system. Use high-pressure rated hoses and fittings.
- **Bypass/Return:** If a bypass line is used, ensure it returns to the supply tank or a drain, not directly back to the pump inlet, to prevent heat buildup.

### 3.4 Electrical Connections

Ensure all electrical connections comply with local codes and standards. The pump requires a 1725 RPM BBP motor. Consult a qualified electrician for wiring if unsure.

## 4. OPERATING INSTRUCTIONS

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Follow these steps for safe and effective operation of the Cat Pump 340.

1. **Prime the Pump:** Before starting, ensure the pump is fully primed with fluid. Open all inlet valves and allow water to flow through the pump until all air is purged.
2. **Start the Motor:** Turn on the power to the motor. The pump should start smoothly.
3. **Adjust Pressure:** If equipped with a pressure regulator, slowly adjust it to the desired operating pressure. Do not exceed the pump's maximum rated pressure.
4. **Monitor Operation:** Continuously monitor the pump for unusual noises, vibrations, or leaks during operation.
5. **Shut Down:** To shut down, first relieve system pressure, then turn off the motor. Close all inlet and outlet valves.

## 5. MAINTENANCE

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Regular maintenance ensures optimal performance and extends the life of your pump.

### 5.1 Oil Changes

Change the pump oil after the first 50 hours of operation, then every 3 months or 500 hours, whichever comes first. Use only Cat Pumps specified crankcase oil.

### 5.2 Seal Replacement

Inspect seals regularly for wear or leaks. Replace worn seals promptly to prevent fluid bypass and pressure loss. Refer to the official Cat Pumps service manual for detailed seal replacement procedures.

### 5.3 Inlet Filter Cleaning

Clean or replace the inlet filter regularly to prevent cavitation and ensure proper fluid flow to the pump.

### 5.4 Winterization (if applicable)

If the pump is stored in an area where temperatures may drop below freezing, drain all water from the pump and lines to prevent freeze damage. Consider using an RV antifreeze solution for protection.

## 6. TROUBLESHOOTING

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This section provides solutions to common operational issues.

Problem	Possible Cause	Solution
No Pressure / Low Pressure	Air in system Worn seals Clogged inlet filter Bypass valve stuck open	Bleed air from system Replace seals Clean/replace filter Inspect/repair bypass valve
Pump Leaking	Worn seals/packing Loose fittings	Replace seals/packing Tighten fittings
Excessive Noise / Vibration	Cavitation (insufficient inlet flow) Loose mounting Worn bearings	Check inlet supply, filter, and line size Secure mounting bolts Contact service for bearing replacement

## 7. SPECIFICATIONS

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Technical specifications for the Cat Pump 340 Direct Drive.

**Model:** 340

**Description:** 5PFR PUMP 1725RPM BBCP 4.0GPM 1800PSI

**Flow Rate:** 4.0 GPM (Gallons Per Minute)

**Maximum Pressure:** 1800 PSI (Pounds per Square Inch)

**RPM:** 1725 RPM

**Manufacturer:** CAT Pumps

**Part Number:** 340

**UPC:** 724373417639

## 8. WARRANTY INFORMATION

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For detailed warranty terms and conditions, please refer to the official warranty statement provided with your product or visit the official CAT Pumps website. Generally, CAT Pumps offers a limited warranty covering defects in materials and workmanship for a specified period from the date of purchase. Keep your proof of purchase for warranty claims.

Protection plans are also available for extended coverage:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly plan)

## 9. CUSTOMER SUPPORT

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If you require further assistance, technical support, or replacement parts, please contact CAT Pumps customer service or an authorized service center. Visit the official CAT Pumps website for the most current contact information and service locations.

**Official Website:** [www.catpumps.com](http://www.catpumps.com)

When contacting support, please have your pump's model number (340) and serial number ready.

**Related Documents - 340**

	<p><a href="#">CAT Pumps 5 Frame Plunger Pump: Models 310, 340, 350 Series</a></p> <p>Detailed specifications, features, parts list, and exploded view for CAT Pumps' 5 Frame Triplex Plunger Pump series, including models 310, 340, and 350 in standard, sleeved, and W770 configurations. Learn about superior design, quality materials, and easy maintenance.</p>
	<p><a href="#">CAT PUMPS 67PPX39G1I Direct-Drive Plunger Pump Technical Specifications</a></p> <p>Comprehensive technical overview of the CAT PUMPS 67PPX39G1I direct-drive plunger pump. Features include triplex design, ceramic plungers, integral unloader, and fixed chemical injector. Details specifications, operational guidance, parts list, and safety information.</p>
	<p><a href="#">CAT PUMPS 35PFR Plunger Pump Service Manual (Models 3507 &amp; 3517)</a></p> <p>Comprehensive service manual for CAT PUMPS 35PFR Plunger Pump, covering installation, start-up, maintenance, troubleshooting, and repair for models 3507 and 3517. Includes technical specifications and procedures.</p>
	<p><a href="#">CAT PUMPS 6831 &amp; 6831K Stainless Steel Triplex Plunger Pumps - Technical Data and Parts</a></p> <p>Explore the CAT PUMPS 6831 and 6831K stainless steel triplex plunger pumps. This document provides detailed specifications, features, exploded views, and parts lists for these high-performance industrial pumps.</p>
	<p><a href="#">CAT PUMPS 25PFR Plunger Pump Service Manual</a></p> <p>Comprehensive service manual for CAT PUMPS 25PFR plunger pumps, covering installation, start-up, valve servicing, seal replacement, plunger maintenance, crankcase servicing, preventative maintenance, and troubleshooting.</p>
	<p><a href="#">CAT PUMPS 25 Frame Piston Pump - Technical Specifications and Parts List</a></p> <p>Comprehensive technical specifications, features, and a detailed parts list for the CAT PUMPS 25 Frame Piston Pump series, including models 1020, 1021, 1520, 1521, 2020, 2021, 2520, 2521, and 2520C.</p>

