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› SAKAWA SP80 7 HP 4-Stroke Water Pump Instruction Manual

SAKAWA 851SP82A

SAKAWA SP80 7 HP 4-Stroke Water Pump Instruction Manual

Model: 851SP82A

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your SAKAWA SP80 7 HP 4-stroke water pump. Please read this manual thoroughly before operating the pump to ensure proper use and to prevent injury or damage.

The SAKAWA SP80 is a powerful gasoline-powered water pump designed for high-intensity water transfer tasks. It features a 7 HP 4-stroke OHV engine, capable of moving up to 48,000 liters per hour with a maximum lift of 32 meters. The 80 mm inlet allows for a maximum suction of 7 meters. An oil level sensor is included to protect the engine.

SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or death.

- Always operate the pump in a well-ventilated area to avoid carbon monoxide poisoning.
- Keep children and pets away from the operating pump.
- Do not refuel the pump while the engine is running or hot. Allow the engine to cool before adding fuel.
- Ensure all connections are secure before starting the pump to prevent leaks.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection.
- Never operate the pump without water in the pump casing, as this can damage the mechanical seal.
- Do not direct the water discharge towards electrical equipment or people.
- Store fuel in an approved container in a cool, well-ventilated area, away from ignition sources.

COMPONENTS AND PACKAGE CONTENTS

Your SAKAWA SP80 water pump package includes the following items:

- SAKAWA SP80 Water Pump Unit
- Inlet/Outlet Connectors (2 units)

- Hose Clamps (3 units)
- Suction Filter/Strainer (1 unit)
- Engine Oil (for initial startup)
- User Manual



Figure 1: Included accessories for the SAKAWA SP80 water pump, featuring two aluminum hose connectors, three metal hose clamps, and a black plastic suction filter.

SETUP

1. **Unpacking:** Carefully remove the pump and all accessories from the packaging. Inspect for any shipping damage.
2. **Add Engine Oil:** Before first use, fill the engine with the provided oil. Locate the oil filler cap/dipstick. Ensure the pump is on a level surface. Fill with the recommended oil type (refer to engine specifications) to the upper mark on the dipstick. Do not overfill. The pump includes an oil level sensor for protection.

3. Connect Hoses:

- **Suction Hose:** Attach the suction filter to one end of your suction hose. Connect the other end of the suction hose to the pump's inlet port using one of the provided connectors and a hose clamp. Ensure a tight, airtight seal to prevent air leaks, which can affect pump performance.
 - **Discharge Hose:** Connect your discharge hose to the pump's outlet port using the remaining connector and hose clamp. Secure tightly.
4. **Positioning:** Place the pump on a firm, level surface. Ensure the suction hose is submerged in the water source and the discharge hose is directed to the desired location. Keep the pump as close to the water source as possible to maximize suction efficiency.
5. **Add Fuel:** Fill the fuel tank with unleaded gasoline. Do not use mixed fuel. Ensure the fuel cap is securely tightened after filling.

OPERATING INSTRUCTIONS

1. **Priming the Pump:** Remove the priming cap located on top of the pump casing. Fill the pump casing completely with clean water until it overflows. Replace the priming cap securely. *This step is crucial for self-priming pumps to operate correctly.*
2. **Starting the Engine:**
 - Turn the engine switch to the "ON" position.
 - Open the fuel valve.
 - Move the choke lever to the "CLOSED" or "START" position (if the engine is cold).
 - Pull the recoil starter handle slowly until resistance is felt, then pull firmly and quickly. Repeat if necessary.
 - Once the engine starts, gradually move the choke lever to the "OPEN" or "RUN" position.
3. **Running the Pump:** Allow the engine to warm up for a few minutes. The pump will begin to draw water. Monitor the water flow and ensure there are no leaks. Adjust the engine speed if necessary (if equipped with a throttle control).
4. **Stopping the Engine:**
 - Close the fuel valve.
 - Allow the engine to run until it runs out of fuel (this helps prevent carburetor issues).
 - Turn the engine switch to the "OFF" position.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your water pump.

• After Each Use:

- Drain any remaining water from the pump casing to prevent freezing or corrosion.
- Clean the suction filter to remove debris.
- Inspect hoses and connections for wear or damage.

• Every 20 Hours of Operation or Monthly:

- **Check Engine Oil Level:** Ensure the oil level is between the upper and lower marks on the dipstick. Add oil if necessary.
- **Clean Air Filter:** Remove and clean the air filter element. Replace if damaged.
- **Inspect Spark Plug:** Check the spark plug for fouling or wear. Clean or replace as needed.

• Every 50 Hours of Operation or Annually:

- **Change Engine Oil:** Drain old oil and refill with new, recommended engine oil.
- **Inspect Fuel Filter:** Clean or replace the fuel filter if necessary.
- **Check for Loose Fasteners:** Tighten any loose bolts or nuts.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine does not start	No fuel; Engine switch OFF; Choke incorrect; Low oil level; Faulty spark plug	Add fuel; Turn switch ON; Adjust choke; Add oil; Clean/replace spark plug
Pump does not prime/No water flow	Pump not primed; Air leak in suction line; Suction filter clogged; Suction lift too high	Prime pump with water; Check all suction connections for leaks; Clean suction filter; Reduce suction lift
Reduced water flow	Clogged suction filter; Partially blocked hose; Engine running at low RPM	Clean suction filter; Check hoses for obstructions; Increase engine speed
Engine stops during operation	Out of fuel; Low oil level; Overheating	Refuel; Add oil; Allow engine to cool, check for obstructions around engine

SPECIFICATIONS

- **Model:** SAKAWA SP80 (851SP82A)
- **Engine Type:** 4-stroke OHV
- **Engine Power:** 7 HP
- **Displacement:** 212 cm³
- **Max Flow Rate:** 48,000 liters/hour
- **Max Head (Lift):** 32 meters
- **Max Suction Lift:** 7 meters
- **Inlet/Outlet Diameter:** 80 mm
- **Fuel Type:** Unleaded Gasoline
- **Weight:** Approximately 25 kg
- **Features:** Oil level sensor for engine protection

WARRANTY AND SUPPORT

SAKAWA products are manufactured to high-quality standards. For warranty information, please refer to the documentation provided at the time of purchase or contact your authorized SAKAWA dealer. Keep your purchase receipt as proof of purchase.

For technical assistance, spare parts, or service, please contact SAKAWA customer support or an authorized service center. Details can typically be found on the SAKAWA official website or through your retailer.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question