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SAKAWA 851SP52P

SAKAWA Water Pump SP52P User Manual

Model: 851SP52P

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your SAKAWA SP52P Water Pump. Please read this manual thoroughly before operating the pump to ensure proper use and to prevent damage or injury.

The SAKAWA SP52P is a powerful 7HP 4-stroke gasoline engine water pump designed for high-pressure water transfer and irrigation tasks. It features a maximum flow rate of 35,000 liters per hour and a maximum lift height of 65 meters, making it suitable for both professional and private use.



Figure 1.1: Front view of the SAKAWA SP52P Water Pump, showcasing its robust orange frame and black engine components.

2. SAFETY INSTRUCTIONS

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

- **Read the Manual:** Before operation, read and understand all instructions in this manual.
- **Ventilation:** Operate the pump in a well-ventilated area. Engine exhaust contains carbon monoxide, which is a dangerous gas.
- **Fuel Handling:** Handle gasoline with extreme care. It is highly flammable. Refuel in a well-ventilated area with the engine off and cool.
- **Hot Surfaces:** The engine and muffler become very hot during operation and remain hot for a while after shutdown. Avoid contact.
- **Electrical Safety:** Do not operate the pump in wet conditions or near standing water to avoid electric shock.
- **Children and Pets:** Keep children and pets away from the operating pump.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, such as gloves and eye protection, when handling fuel or performing maintenance.
- **Oil Alert Sensor:** The pump is equipped with an oil alert sensor to protect the engine. Do not bypass this safety feature.

3. PACKAGE CONTENTS AND ASSEMBLY

Verify that all components are present before beginning assembly.

3.1. Included Components:

- SAKAWA SP52P Water Pump Unit
- 2 x 50mm Hose Connections (with fittings)
- 2 x 40mm Hose Connections (with fittings)
- 1 x Suction Filter
- 5 x Clamps for Fittings
- Tool Kit
- User Manual (this document)

3.2. Assembly Steps:

1. **Unpacking:** Carefully remove the pump and all accessories from the packaging. Inspect for any shipping damage.
2. **Hose Connection:** Attach the appropriate hose connections (50mm or 40mm) to the pump's inlet and outlet ports. Secure them firmly with the provided clamps.
3. **Suction Filter:** Connect the suction filter to the end of the suction hose (not included) that will be submerged in the water source.
4. **Placement:** Place the pump on a firm, level surface. Ensure there is adequate space around the pump for ventilation and operation.



Figure 3.1: Side view of the SAKAWA SP52P, highlighting the red pump housing and connection points for hoses.

4. OPERATING INSTRUCTIONS

4.1. Before Starting:

- **Engine Oil:** Check the engine oil level. Ensure it is at the recommended level using the dipstick. Use appropriate 4-

stroke engine oil. The oil alert sensor will prevent starting if the oil level is too low.

- **Fuel:** Fill the fuel tank with unleaded gasoline. Do not overfill.
- **Priming the Pump:** Before starting, the pump casing must be filled with water through the priming port. This is crucial for the pump to create suction.
- **Hose Connections:** Ensure all hoses are securely connected and free of kinks or blockages.



Figure 4.1: Top-down view of the SAKAWA SP52P, showing the fuel cap and the priming port, which must be filled with water before operation.

4.2. Starting the Engine:

1. Open the fuel valve.
2. Move the choke lever to the "CHOKE" position (if the engine is cold).
3. Set the engine switch to "ON".
4. Pull the recoil starter handle firmly and smoothly until the engine starts.
5. Once the engine starts, gradually move the choke lever to the "RUN" position.
6. Allow the engine to warm up for a few minutes before applying full load.



Figure 4.2: Front-left view of the SAKAWA SP52P, illustrating the recoil starter mechanism and engine controls.

4.3. Stopping the Engine:

1. Reduce the engine speed to idle.
2. Set the engine switch to "OFF".
3. Close the fuel valve.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your water pump.

5.1. Maintenance Schedule:

Item	Every Use	Every 25 Hours / Monthly	Every 100 Hours / Annually
Engine Oil Level	Check		
Air Filter		Clean	Replace
Spark Plug		Inspect/Clean	Replace
Fuel Filter			Clean/Replace
Pump Casing	Drain/Flush		

5.2. Storage:

If storing the pump for an extended period:

- Drain the fuel tank and carburetor.
- Change the engine oil.
- Remove the spark plug and pour a small amount of engine oil into the cylinder. Pull the recoil starter a few times to distribute the oil, then reinstall the spark plug.
- Clean the exterior of the pump.
- Store in a clean, dry place away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

This section provides solutions to common operational issues.

Problem	Possible Cause	Solution
Engine does not start	No fuel Engine switch OFF Low engine oil Choke not set correctly Spark plug issue	Add fuel Turn engine switch to ON Add engine oil Adjust choke Inspect/clean/replace spark plug
Pump does not prime/no water flow	Pump not primed Air leak in suction hose Suction filter clogged Water source too low	Fill pump casing with water Check hose connections for leaks Clean suction filter Ensure adequate water level
Reduced water flow/pressure	Clogged impeller Hose kinked/blocked Engine running slow	Inspect and clean impeller Clear hose obstructions Check engine speed/adjust throttle

If the problem persists after attempting these solutions, please contact SAKAWA customer support or a qualified service technician.

7. SPECIFICATIONS

Feature	Specification
Model	851SP52P
Engine Type	4-stroke Gasoline Engine
Engine Power	7 HP (Horsepower)
Maximum Flow Rate	35,000 Liters per hour (3.5E+4 L/h)
Maximum Lift Height	65 Meters
Dimensions (L x W x H)	46 x 49 x 39 cm
Weight	22 kg
Fuel Type	Unleaded Gasoline
Color	Black, Red (with Orange Frame)

8. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact SAKAWA customer support directly. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support, spare parts, or service inquiries, please visit the official SAKAWA website or contact their authorized service centers. Contact details are typically available on the manufacturer's website or in the product packaging.

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