INTRODUCTION

Thank you very much for your patronage given to FUJI ROBIN in your having bought our FUJI ROBIN PUMP SDE041 SD06B.

This booklet was compiled for your information, which we hope will be of help in your efficient use of FUJI ROBIN PUMP SD15B. SDE041 as a result of the development based on our rich experience and technology is designed to fit the characteristics of our engine with the performance of our pump, so that we believe SD15B will well respond to your reliance, demonstrating excellent performance such as satisfaction, flowing and durability.

If you read this booklet thoroughly to learn the performance and use, it will serve your efficient use of your pump in the best condition.

Please ask you Robin's agent where you purchased your pump.
<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th>SDE041</th>
<th>SD06B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement</strong></td>
<td>310(L)x285(Z)x300(H) mm</td>
<td>415(L)x307(Z)x380(H) mm</td>
</tr>
<tr>
<td><strong>Dry Weight</strong></td>
<td>7 Kg</td>
<td>17.5 Kg</td>
</tr>
</tbody>
</table>

**Pump**
- **Type**: Self-Sucking volute pump
- **Diameters (Suction-Discharge)**: 25 mm - 25 mm, 40 mm - 40 mm
- **Drive System**: Direct drive
- **Max. Head**: 48 meters (at max. RPM), 50 meters (at max. RPM)
- **Max. Flow**: 130 l/min. (at max. RPM), 300 l/min
- **Suction System**: Double volute
- **Max. self-suction head**: 7 meters
- **Self-sucking**: about 20 seconds at 3 meter head, about 30 seconds at 3 meter head

**Engine**
- **Model**: Robin EC04ER (SDE041), Robin EC06D
- **Type**: Robin 2-stroke single cylinder, air-cooled gasoline engine
- **Cylinder displacement**: 40.2 cc, 60.8 cc
- **Max. Output**: 2.0 PS at 7,000 RPM, 2.5 PS at 5000 RPM
- **Continuous Output (rated)**: 1.4 PS at 6,000 RPM, 1.9 PS at 4500 RPM
- **Fuel**: Mixed Oil (gasoline 25: 2-cycle engine oil 1)
- **Fuel tank capacity**: about 1.1 litre, about 1.4 litre
- **Starter**: Recoil Starter
- **Standard Accessories**: 1 set Tool Kit, 1 set Suction Pipe

The specification is subject to change without notice for the purpose of improvement of the product.
NAMES OF COMPONENT PARTS AND PARTS

Handle
Plug for self-suction
Inlet
Plug for Discharge

Fuel tank cap
Fuel tank
Speed regulator
Recoil starter
Air cleaner

Handle
Plug for self-suction
Discharge
Inlet
Plug for Discharge

Fuel tank cap
Fuel tank
Recoil starter
Air cleaner
CHARACTERISTICS AND USES

1. Characteristics
   (1) With good self-suction, stable performance can be maintained for a long time.
   (2) Good efficiency leads to economical operation.
   (3) Compact size and light weight ensure handiness in operation.
   (4) Easy maintenance and repair are made possible through designing.
   (5) Highest head among the same class of pumps is assured.

2. Uses
   (1) Extensive applications in watering, draining and sprinkling.
   (2) Applicable to car washing and sprinkler.
   (3) Serve as fire fighting pump in early stage of combustion.

PERFORMANCE

![Graphs showing performance data for SDE041 and SD06B models.](image)
DRIVING:

Preparation

Engine:

(1) Fuel

Supply fuel into the fuel tank.
Fuel tank capacity: 1.1 litre SD041
1.4 litre SD06B

Pump

(a) Attach the Inlet pipe and the Discharge pipe to the pump.

Note:

1. The female joints of Inlet pipe and Discharge pipe must fit the treads on the pump. (PF 11 Pitch).

2. The Inlet pipe should be shorter than 4.5 meters.

3. Clamp firmly the joints of the Inlet and Discharge pipes to the pump.

4. Special attention must be paid to the packing at the joints, so that no leakage of water or air is possible. Leakage causes frequently lower heads.

(b) Let the pump stand as level as possible and as near to the water source as possible.

Note:

When the pump is placed on uneven ground or steep slope, pay special attention not to allow the pump to tumble down. Weight of the Inlet pipe sometimes causes this type of mishaps.

(c) Priming

Remove the plug for self-suction and prime water into the chamber until it overflows.

Note:

1. Insufficient water causes lower Heads.

2. Operation without priming causes damages to the mechanical seal.
(d) After priming, replace the plug and clamp it tightly.

DRIVING 2

1. Starting

   (a) Open the fuel cock.
   (b) Close the choke lever of the carburettor.

   Note*
   1. When the engine has sufficiently been warmed up, adjust the choke by half or full opening according to the conditions.
   (c) Put the throttle lever to "high".
   (d) Pull the recoil starter vigorously.
   (e) When the engine starts, open the choke lever full.

   Note*
   1. Make sure that the engine is always kept warm after it has started.

2. Waterflow

   (a) Let the engine run for 20 to 30 seconds after it has started.
       The pump will automatically suck water.
   (b) Water begins to flow as soon as it is sucked.
3. **Stop**
   
   (a) Put the throttle lever to "Low".
   
   (b) Keep pressing the stop button until the engine stops.
   
   (c) Close the fuel cock lever.

4. **Draining**
   
   (a) Remove the plug for water drainage. Let the water be drained out completely.
   
   (b) Replace the plug and tighten it.

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**Caution on handling the engine.**

In preparation stage, make sure the quality of oil in the crankcase. Recommended oil is SAE #20 or #30.

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**DEFECTS, CHECKING AND ADJUSTMENTS**

If any of the following defects are noticed, check the pump and make proper adjustments.

<table>
<thead>
<tr>
<th>Defects</th>
<th>Check points and Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Water cannot be lifted</td>
<td>(a) Water for self-sucking operation is not sufficient.</td>
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<tr>
<td></td>
<td>(b) Self-suction lift is too high. (the max. is 7 meters)</td>
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<tr>
<td></td>
<td>(c) Suction pipe joint is loose.</td>
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<tr>
<td></td>
<td>(d) Lack of packing in the suction pipe joint.</td>
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<td></td>
<td>(e) The straithner is clogged with foreign matters.</td>
</tr>
<tr>
<td></td>
<td>(f) RPM is too low.</td>
</tr>
<tr>
<td>(b) Water flow is not</td>
<td>(a) Engine RPM is too low.</td>
</tr>
<tr>
<td>sufficient</td>
<td>(b) Air leaks through the suction pipe joint.</td>
</tr>
<tr>
<td></td>
<td>(c) Straithner is clogged with foreign matters.</td>
</tr>
<tr>
<td></td>
<td>(d) The impeller is clogged with foreign matters.</td>
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<tr>
<td></td>
<td>(e) The discharge pipe is damaged.</td>
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<tr>
<td>(c) Unusual Sound</td>
<td>(f) The distance between water source and the pump is too long.</td>
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<tr>
<td></td>
<td>(g) The impeller case is worn.</td>
</tr>
<tr>
<td>(d) Water leaks from the drain</td>
<td>(a) Gravel or sand is collected in the case.</td>
</tr>
<tr>
<td>hole</td>
<td>(a) Check the mechanical seal and replace it, if necessary.</td>
</tr>
</tbody>
</table>
STORAGE

1. When the pump is not intended to be used for a long time, care must be given to the following before it is stored.

   (a) Operate the pump for several minutes with clean water to clean out dust and other foreign matters.

   (b) Remove the drain plug (main and sub) and drain water completely.

   (c) Clean dust and mud from the outer face of the pump and swab it with machine oil soaked cloths.

   (d) Storage should be made in dry place.

Note*

1. When the pump is used in extreme cold, drain water completely. Or otherwise, the pump is damaged by freezing sometimes.