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› Attwood Sahara 4505-7 Automatic Bilge Pump User Manual

## Attwood 4505-7

# Attwood Sahara 4505-7 Automatic Bilge Pump User Manual

Model: 4505-7

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## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Attwood Sahara 4505-7 Automatic Bilge Pump. Please read these instructions carefully before use to ensure safe and efficient performance.

The Attwood Sahara 4505-7 is an automatic bilge pump designed for marine applications. It features a built-in float switch for automatic operation, a depressor to prevent airlocks, and a removable strainer for easy cleaning. Its robust construction includes a permanent magnet motor, a stainless steel shaft, and reinforced steel seals for powerful and durable performance.



Figure 1: Attwood Sahara 4505-7 Automatic Bilge Pump. This image shows the pump from an angled perspective, highlighting its compact design and integrated components.

## Key Features:

- Integrated float switch for automatic operation.
- Depressor mechanism to prevent airlocks.
- Drilled bracket for easy installation and removal.
- Easy-to-remove mesh filter for cleaning.
- Pre-installed connections for easy accessory integration.
- Includes 40.64 cm (16 inches) of tinned copper wire.
- Durable construction with a permanent magnet motor, stainless steel shaft, and reinforced steel seals.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury or damage to the product and vessel.

- **Electrical Safety:** Ensure all electrical connections are waterproof and properly insulated. Use appropriate fuse protection as specified in the electrical requirements. Disconnect power before installing or servicing the pump.
- **Installation:** Install the pump in a location where it can effectively remove water from the bilge. Ensure the pump is securely mounted to prevent movement during vessel operation.
- **Ventilation:** Ensure adequate ventilation around the pump to prevent overheating.
- **Flammable Liquids:** This pump is designed for water removal only. Do not use it to pump flammable liquids, gasoline, or other hazardous materials.
- **Maintenance:** Regularly inspect the pump and wiring for signs of wear or damage. Clean the strainer periodically to ensure optimal performance.
- **Children and Pets:** Keep children and pets away from the pump and its electrical connections.

### 3. SETUP & INSTALLATION

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Proper installation is crucial for the reliable operation of your bilge pump.

#### 3.1 Mounting the Pump

1. Select a suitable location in the lowest part of the bilge where water collects.
2. Ensure the mounting surface is flat and secure.
3. Use the integrated drilled bracket to secure the pump to the bilge floor using appropriate marine-grade fasteners (not included).
4. Position the pump so that the outlet port is accessible for hose connection.



Figure 2: Side view of the Attwood Sahara 4505-7 Bilge Pump. This view shows the pump's profile, including the outlet port and the Attwood Sahara branding.

#### 3.2 Electrical Wiring

The pump operates on 12V DC. Refer to the wiring diagram below for correct connections. Always use marine-grade wiring and connectors.

- Connect the brown wire to a fused 12V positive (+) power source (e.g., battery or distribution panel). A 3 Amp fuse is recommended.
- Connect the black wire to a 12V negative (-) ground.
- Ensure all connections are watertight and protected from corrosion.

#### 3.3 Hose Connection

- Connect a 19 mm (3/4 inch) bilge hose to the pump's outlet port.

- Secure the hose with a marine-grade hose clamp to prevent leaks.
- Route the hose upwards to a through-hull fitting, ensuring a continuous upward slope to prevent backflow.

## 4. OPERATION

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The Attwood Sahara 4505-7 is an automatic bilge pump, meaning it will activate when water levels rise and deactivate when water is removed.

### 4.1 Automatic Mode

- Once properly installed and wired, the pump will automatically turn on when the water level in the bilge rises sufficiently to activate the internal float switch.
- The pump will continue to run until the water level drops below the float switch's activation point, at which time it will turn off.

### 4.2 Manual Test Function

To test the pump's functionality, use the manual test knob located on the side of the pump.

1. Ensure power is supplied to the pump.
2. Locate the white knob labeled "TURN TO TEST" on the side of the pump.
3. Turn the knob in the direction indicated by the arrow. This will manually activate the pump.
4. The pump should run and expel any water present.
5. Release the knob to return the pump to automatic mode.



Figure 3: Close-up view of the manual test knob. Turning this knob allows for manual activation of the pump to verify its operation.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your bilge pump.

### 5.1 Cleaning the Strainer

The pump features an easy-to-remove mesh filter (strainer) to prevent debris from entering the pump mechanism.

1. Disconnect power to the pump before cleaning.
2. Unclip or twist the pump housing to detach the base and access the strainer.
3. Remove any debris, leaves, or other foreign objects from the strainer.
4. Rinse the strainer with fresh water.
5. Reattach the strainer and pump housing, ensuring it is securely fastened.

### 5.2 Inspection

- Periodically check all electrical connections for corrosion or looseness.
- Inspect the bilge hose for kinks, cracks, or blockages.
- Verify that the float switch moves freely and is not obstructed by debris.
- Test the pump regularly using the manual test function.

## 6. TROUBLESHOOTING

If your Attwood Sahara 4505-7 bilge pump is not operating as expected, consult the following table for common issues and solutions.

| Problem                            | Possible Cause                                                                                                                                                              | Solution                                                                                                                                                                                                                                                                                     |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pump does not run automatically.   | <ul style="list-style-type: none"><li>◦ No power to the pump.</li><li>◦ Float switch obstructed or faulty.</li><li>◦ Blown fuse.</li></ul>                                  | <ul style="list-style-type: none"><li>◦ Check electrical connections and battery voltage.</li><li>◦ Clear any debris around the float switch. Test manually.</li><li>◦ Replace the fuse (3 Amp recommended).</li></ul>                                                                       |
| Pump runs but does not pump water. | <ul style="list-style-type: none"><li>◦ Strainer clogged.</li><li>◦ Hose kinked or blocked.</li><li>◦ Airlock in the pump.</li><li>◦ Pump not submerged in water.</li></ul> | <ul style="list-style-type: none"><li>◦ Clean the strainer (see Maintenance).</li><li>◦ Inspect and clear the bilge hose.</li><li>◦ Ensure the depressor is clear. Briefly lift and lower the pump to release air.</li><li>◦ Verify the pump is positioned correctly in the bilge.</li></ul> |
| Pump runs continuously.            | <ul style="list-style-type: none"><li>◦ Float switch stuck in "on" position.</li><li>◦ Water continuously entering the bilge.</li></ul>                                     | <ul style="list-style-type: none"><li>◦ Check and clear the float switch.</li><li>◦ Identify and repair the source of water ingress.</li></ul>                                                                                                                                               |

## 7. SPECIFICATIONS

Technical specifications for the Attwood Sahara 4505-7 Automatic Bilge Pump.



Figure 4: Attwood Sahara 4505-7 Bilge Pump with key dimensions. The image illustrates the length, width, and height of the pump.

| Feature                 | Detail                      |
|-------------------------|-----------------------------|
| Model Number            | 4505-7                      |
| Brand                   | Attwood                     |
| Voltage                 | 12V DC (13.6 Volts nominal) |
| Flow Rate (GPH)         | 500 Gallons per Hour (GPH)  |
| Flow Rate (LPH)         | 1892 Liters per Hour (LPH)  |
| Maximum Flow Rate (LPM) | 18.32 Liters per Minute     |
| Fuse Requirement        | 3 Amp                       |

| Feature                | Detail                                                 |
|------------------------|--------------------------------------------------------|
| Hose Outlet Diameter   | 19 mm (3/4 inch)                                       |
| Material               | Stainless Steel (shaft), Plastic housing               |
| Dimensions (L x W x H) | 14 cm x 8.3 cm x 10.2 cm (5.51 in x 3.27 in x 4.02 in) |
| Product Weight         | 362.87 g (0.8 lbs)                                     |
| Power Source           | Electric Cable                                         |

## 8. WARRANTY & SUPPORT

Attwood products are manufactured to high-quality standards. For specific warranty details, please refer to the documentation included with your purchase or visit the official Attwood website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Attwood customer service through their official channels.

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