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› [Suntec A2VA-7116 Single Stage Oil Fuel Pump Instruction Manual](#)

## Suntec A2VA-7116

# Suntec A2VA-7116 Single Stage Oil Fuel Pump Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Suntec A2VA-7116 Single Stage Oil Fuel Pump. Adhering to these instructions will ensure optimal performance and longevity of the product. Please read this manual thoroughly before attempting any procedures.

## 2. SAFETY INFORMATION

Always prioritize safety when working with fuel systems. Failure to follow safety precautions can result in serious injury or property damage.

- Disconnect power to the system before installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including eye protection and gloves.
- Ensure adequate ventilation when working with fuel.
- Keep ignition sources away from fuel and fuel system components.
- Handle fuel carefully to prevent spills. Clean up any spills immediately.
- Refer to local codes and regulations for fuel system installations.

## 3. PRODUCT OVERVIEW

The Suntec A2VA-7116 is a single-stage oil fuel pump designed for reliable fuel delivery in various applications, including trucks and tractors. It features specific flow rates and pressure ranges for different fuel types.



This image displays the Suntec A2VA-7116 single stage oil fuel pump. Key features visible include the 'GAUGE' port, 'INLET' and 'RETURN & BY-PASS' connections, and specifications such as '3 GPH at 100-150 PSI for No. 2 & Lighter Fuel' and '2 GPH at 150-200 PSI for No. 2 Fuel', both operating at 3450 RPM. The pump also indicates rotation direction.

#### 4. SPECIFICATIONS

|   |                                       |
|---|---------------------------------------|
| <b>Brand</b>                                | Suntec                                |
| <b>Model Number</b>                         | A2VA-7116                             |
| <b>Manufacturer Part Number</b>             | A2V-7116                              |
| <b>Flow Rate (No. 2 &amp; Lighter Fuel)</b> | 3 GPH at 100-150 PSI                  |
| <b>Flow Rate (No. 2 Fuel)</b>               | 2 GPH at 150-200 PSI                  |
| <b>RPM</b>                                  | 3450 RPM                              |
| <b>Body Material</b>                        | Plastic                               |
| <b>Inlet Connection Type</b>                | Threaded                              |
| <b>Operation Mode</b>                       | Automatic                             |
| <b>Fit Type</b>                             | Vehicle Specific Fit (Truck, Tractor) |
| <b>Item Dimensions (L x W x H)</b>          | 1 x 1 x 1 inches                      |
| <b>Item Weight</b>                          | 0.01 Ounces                           |

## 5. INSTALLATION (SETUP)

Proper installation is crucial for the safe and efficient operation of the fuel pump. If you are unsure about any step, consult a qualified technician.

- Preparation:** Ensure the fuel system is depressurized and drained. Disconnect the battery to prevent accidental starts.
- Mounting:** Securely mount the new fuel pump in the designated location, ensuring it is stable and free from excessive vibration. Use appropriate fasteners.
- Fuel Line Connections:** Connect the fuel inlet and outlet lines to the corresponding ports on the pump. Ensure all connections are tight and leak-free. Refer to the pump's markings for correct inlet and return/bypass connections.
- Electrical Connections:** Connect the electrical wiring according to the system's wiring diagram. Ensure connections are secure and insulated.
- Priming (if applicable):** Some systems may require manual priming to remove air from the fuel lines before initial startup. Consult your equipment's specific instructions.
- Leak Check:** After installation, reconnect the battery and briefly turn on the system (without starting the engine) to pressurize the fuel lines. Inspect all connections for leaks.

## 6. OPERATION

Once installed and checked for leaks, the fuel pump operates automatically as part of the fuel delivery system.

- Initial Start-up:** After installation, it may take a few seconds for the pump to build pressure and deliver fuel consistently.
- Monitoring:** Periodically check the fuel system for unusual noises, vibrations, or signs of leakage during operation.
- Pressure Gauge:** If a pressure gauge is installed at the designated port, monitor the fuel pressure to ensure it remains within the specified operating range (100-150 PSI for No. 2 & lighter fuel, 150-200 PSI for No. 2 fuel).

## 7. MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your fuel pump.

- Fuel Filter:** Regularly inspect and replace the fuel filter according to your equipment manufacturer's recommendations. A clogged filter can strain the pump.
- Connections:** Periodically check all fuel line and electrical connections for tightness and signs of wear or corrosion.
- Cleanliness:** Keep the area around the fuel pump clean and free of debris.
- Visual Inspection:** Look for any signs of physical damage or leaks on the pump body.

## 8. TROUBLESHOOTING

This section provides solutions for common issues. For complex problems, consult a qualified technician.

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

|                                  |   |   |
|----------------------------------|---|---|
| No fuel delivery or low pressure | Clogged fuel filter, air in lines, faulty electrical connection, pump malfunction | Check/replace fuel filter. Bleed air from lines. Verify electrical connections and power supply. Inspect pump for damage. |
| Fuel leak                        | Loose connections, damaged fuel lines, faulty seals                               | Tighten all connections. Inspect fuel lines for cracks or damage and replace if necessary. Check pump seals.              |
| Pump making unusual noise        | Air in system, cavitation, internal wear  | Bleed air from lines. Ensure adequate fuel supply. If noise persists, pump may require inspection or replacement.         |

## 9. WARRANTY INFORMATION

This Suntec product is covered by the manufacturer's standard warranty. Please retain your proof of purchase for warranty claims. For specific details regarding warranty terms and conditions, refer to the documentation provided with your purchase or contact Suntec directly.

## 10. SUPPORT

For technical assistance, replacement parts, or further inquiries, please contact Suntec customer support. Contact information can typically be found on the manufacturer's official website or on the product packaging.

When contacting support, please have your product model number (A2VA-7116) and purchase details readily available.