

## Spal 30100392

# Spal 30100392 Puller Fan User Manual

Model: 30100392 | Brand: Spal

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Spal 30100392 Puller Fan. Please read this manual thoroughly before attempting to install or operate the fan to ensure proper function and safety.

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product or vehicle:

- Disconnect the vehicle's battery before performing any electrical work or installation.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Use appropriate personal protective equipment, such as safety glasses and gloves, during installation.
- Do not operate the fan if it is damaged or if any components are missing.
- Keep hands and loose clothing away from moving fan blades.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Handle with care and wash hands after handling.

## 3. PRODUCT FEATURES

The Spal 30100392 Puller Fan is designed for efficient cooling in various automotive applications. Key features include:

- **12V Puller Design:** Optimized to pull air through heat exchangers.
- **Compact Dimensions:** Height and Width of 247mm (approximately 9.72 inches) for versatile mounting.
- **Durable Construction:** Made from robust plastic material.
- **Efficient Cooling:** Suitable for HVAC vehicle systems and oil/engine cooling systems.

- **Low Noise Operation:** Rated at 45 dB.
- **High Rotational Speed:** Up to 2500 RPM for effective airflow.



*Figure 1: Spal 30100392 Puller Fan. This image displays the Spal 30100392 Puller Fan. It features a black plastic frame and fan blades, with a central motor housing. An electrical cable with a white 2-pin connector extends from the motor. The fan is designed to pull air.*

#### **4. PACKAGE CONTENTS**

Upon opening the package, verify that all components are present and undamaged:

- Spal 30100392 Puller Fan (1 unit)

- (Note: Mounting hardware and specific wiring accessories may be sold separately or included depending on the kit. Refer to your specific product packaging.)

## 5. SETUP AND INSTALLATION

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Installation of the Spal 30100392 Puller Fan requires basic automotive electrical and mechanical knowledge. If you are unsure about any steps, it is recommended to seek professional assistance.

### Installation Steps:

1. **Preparation:** Ensure the vehicle's ignition is off and the battery is disconnected. Allow any hot components to cool down.
2. **Mounting Location:** Identify a suitable mounting location for the fan, typically in front of or behind a radiator or condenser, ensuring adequate clearance for fan blades and airflow.
3. **Secure Mounting:** Securely mount the fan using appropriate hardware (not included unless specified). Ensure the fan is stable and does not vibrate excessively.
4. **Electrical Connection:** Connect the fan's 2-pin power connector to the vehicle's electrical system. Ensure correct polarity (typically red/positive, black/negative). It is recommended to use a relay and an appropriate 15 Amp fuse for protection, as specified for 13V operation.
5. **Wiring Routing:** Route the wiring away from hot or moving parts, securing it with cable ties.
6. **Testing:** Reconnect the battery and test the fan's operation. Verify that the fan pulls air in the intended direction.

## 6. OPERATING INSTRUCTIONS

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The Spal 30100392 is a puller fan, meaning it is designed to pull air through a heat exchanger (like a radiator or condenser) and push it towards the engine compartment. Its operation is typically controlled by the vehicle's engine management system or a dedicated thermostat/switch, activating when cooling is required.

- Ensure the fan is free from obstructions before and during operation.
- Monitor vehicle temperature gauges to confirm proper cooling system function after installation.

## 7. MAINTENANCE

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Regular maintenance helps ensure the longevity and optimal performance of your fan:

- **Periodic Inspection:** Visually inspect the fan blades, motor housing, and wiring for any signs of damage, wear, or corrosion.
- **Cleaning:** Gently clean the fan blades and housing to remove dirt, dust, and debris that can impede airflow. Use a soft cloth and mild cleaner if necessary. Do not use harsh chemicals or abrasive materials.
- **Electrical Connections:** Periodically check electrical connections for tightness and corrosion.
- **Fuse Check:** If the fan stops working, check the 15 Amp fuse in the circuit. Replace with a fuse of the same rating if blown.

## 8. TROUBLESHOOTING

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If you encounter issues with your Spal 30100392 Puller Fan, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Fan does not turn on.	No power to the fan; Blown fuse; Loose electrical connection; Faulty relay/switch.	Check power supply to the fan. Inspect and replace the 15 Amp fuse if blown. Secure all electrical connections. Test or replace the relay/switch if applicable.
Fan runs but airflow is weak.	Obstruction in front/behind fan; Dirty fan blades; Incorrect fan rotation.	Remove any obstructions. Clean fan blades. Verify correct wiring polarity for proper rotation (puller fan should pull air).
Excessive noise or vibration.	Loose mounting; Damaged fan blades; Debris caught in fan.	Tighten mounting hardware. Inspect fan blades for damage and replace if necessary. Remove any debris.

## 9. SPECIFICATIONS

Detailed technical specifications for the Spal 30100392 Puller Fan:

**Brand:** Spal

**Model:** 30100392

**Type:** Puller Fan

**Voltage:** 13 Volts

**Wattage:** 15 watts

**Power Connector Type:** 2-Pin

**Cooling Method:** Air

**Compatible Devices:** Transmission Coolers, HVAC vehicle systems, oil/engine cooling systems

**Noise Level:** 45 dB

**Material:** Plastic

**Maximum Rotational Speed:** 2500 RPM

**Item Weight:** 2.11 pounds (approx. 0.96 kg)

**Product Dimensions:** 9.72 x 9.72 x 2.05 inches (approx. 247 x 247 x 52 mm)

**Manufacturer Part Number:** 30100392

**UPC:** 816211020115

## 10. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation included with your product or visit the official Spal Automotive website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

If you require technical support or have questions regarding installation or operation that are not covered in this manual, please contact Spal customer service or an authorized dealer. Ensure you have your product model number (30100392) and purchase details available when seeking support.

