

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

Manuals.plus /

› [GrfceVue](#) /

› GrfceVue Universal Supercharger SC14 User Manual

## GrfceVue SC14

# Universal Supercharger SC14 User Manual

Model: SC14 | Brand: GrfceVue

## 1. PRODUCT OVERVIEW

---

The GrfceVue Universal SC14 Supercharger is designed for engine modification, suitable for vehicles with a displacement between 2.0L and 3.5L. This Roots blower booster turbine aims to significantly improve engine efficiency, increase power output, and reduce fuel consumption and pollutant emissions. It is a remanufactured unit, not new, and is intended for professional installation due to its complex nature.

### Key Features:

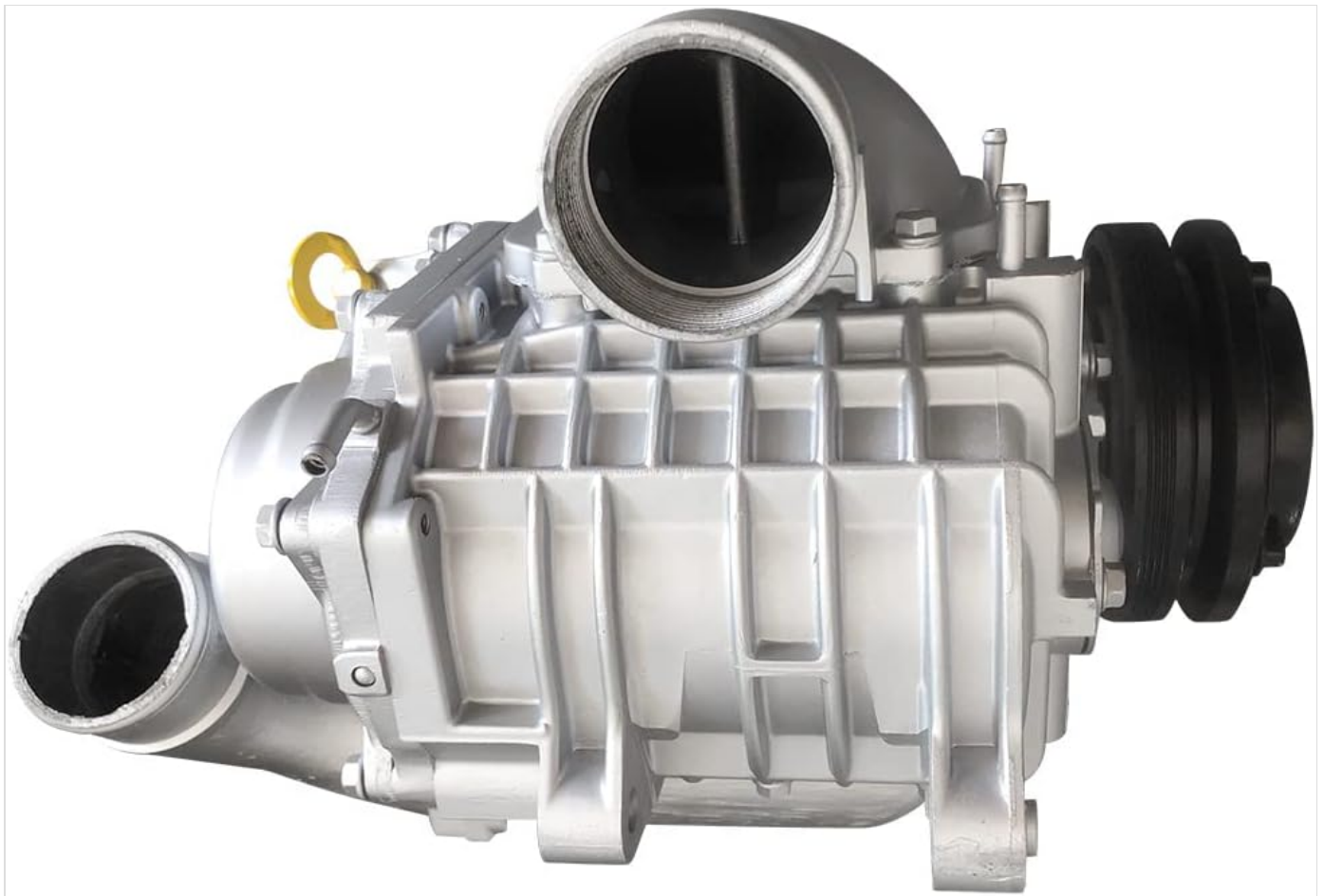
- **Universal Compatibility:** Designed for 2.0L to 3.5L SUV engines, adaptable to various models with sufficient installation space.
- **Increased Power:** Boosts engine power by over 30%.
- **Fuel Efficiency:** Can lower fuel consumption by 3-10%.
- **Reduced Emissions:** Helps reduce pollutant emissions (LCD, HC, NOXJ) by 30% or more.
- **Engine Protection:** Reduces engine wear caused by deposits.
- **Compact Size:** Small dimensions allow for easier installation in various vehicle models.

## 2. PACKAGE CONTENTS

---

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

- 1 x SC14 Universal Supercharger Unit



*Image 1: The GrfceVue SC14 Universal Supercharger unit. This image shows the overall appearance of the supercharger, highlighting its compact design and main components.*

### 3. INSTALLATION AND SETUP

---

**Important:** Installation instructions are **NOT** included with this product. Professional installation is highly recommended due to the complexity of engine modification and the need for precise adjustments. Incorrect installation can lead to damage to the supercharger or the vehicle's engine.

#### 3.1 Pre-Installation Requirements

- **Gear Oil Filling:** Before installation, the supercharger's gear oil must be filled. Approximately 150ml of **75w-90, GL-5** type gear oil is required. Ensure this step is completed to prevent damage to the internal components.
- **Pulley Type:** Note that the supercharger is equipped with a V-pulley (VPK). Ensure compatibility with your vehicle's existing belt system.
- **Space Requirements:** The supercharger can be mounted on any engine provided there is sufficient physical space for installation. Verify available space in your engine bay before attempting installation.
- **Engine Displacement:** This unit is suitable for engines with a displacement of 3.5L or below.

#### 3.2 Mounting Considerations

The direction of rotation can be adjusted as needed, but this will result in the air intake and outlet swapping positions. Plan your intake and outlet routing accordingly based on the chosen rotation direction and available space.



*Image 2: Side view of the SC14 Supercharger, showing the main body and the intake/outlet ports. This view helps in planning the routing of air ducts.*



*Image 3: Close-up view of the supercharger's V-pulley system. This component connects to the engine's accessory drive belt.*

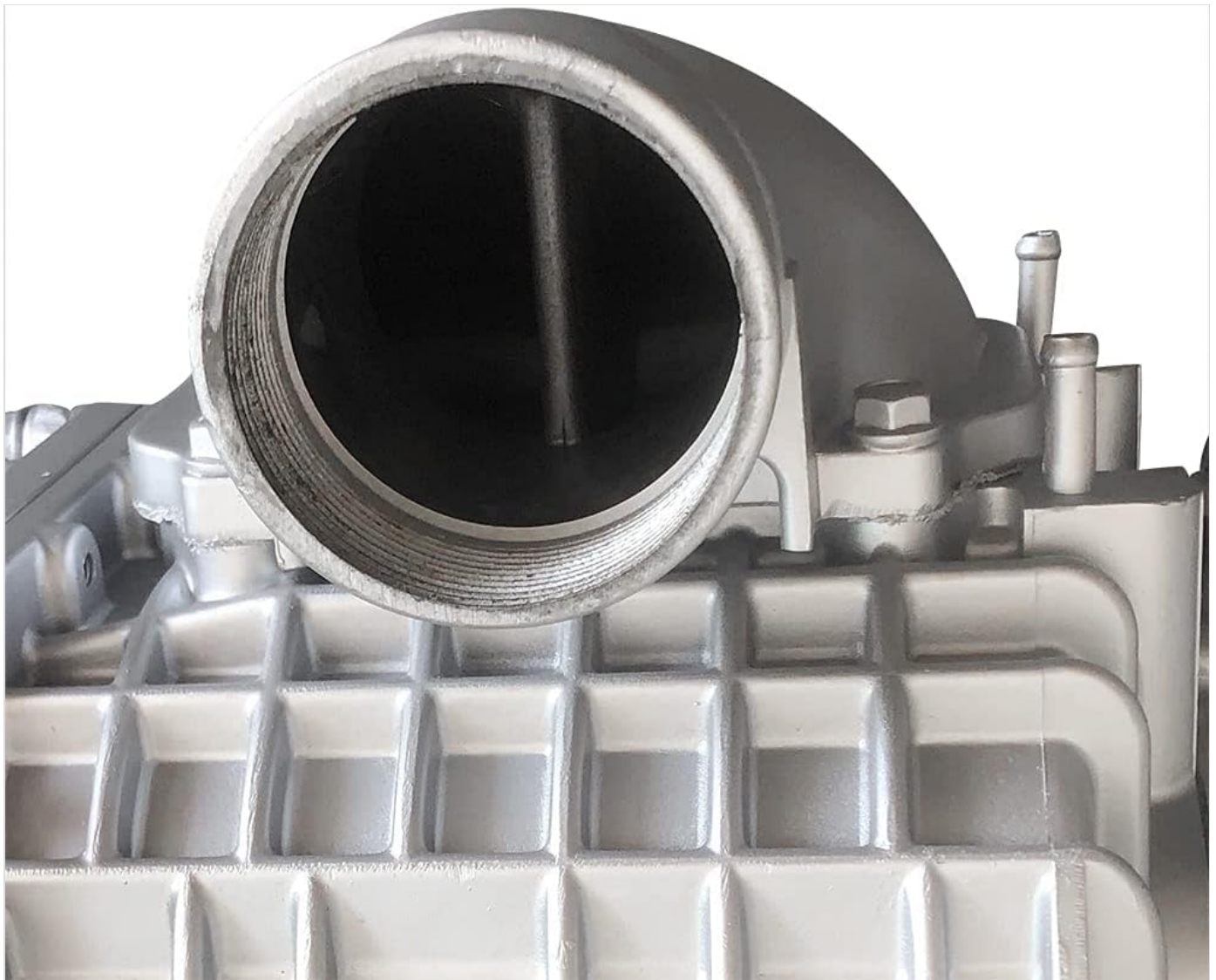
## 4. OPERATING PRINCIPLES AND BENEFITS

---

The SC14 supercharger operates by forcing more air into the engine's combustion chambers than would be possible under normal atmospheric pressure. This increased air density allows for more fuel to be burned, resulting in a significant boost in power and torque.

### 4.1 Performance Enhancements

- **Instant Power Delivery:** Unlike turbochargers, Roots-type superchargers provide immediate boost with no turbo lag, offering improved throttle response.
- **Consistent Power:** Delivers a linear power increase across the engine's RPM range.
- **Improved Efficiency:** By optimizing combustion, the supercharger contributes to better fuel economy and reduced emissions.



*Image 4: Rear view of the SC14 Supercharger, highlighting the large circular intake opening. This is where air enters the supercharger before being compressed.*

## 5. MAINTENANCE

---

Proper maintenance is crucial for the longevity and optimal performance of your SC14 supercharger. While specific maintenance schedules are not provided, general guidelines include:

- **Gear Oil Level:** Regularly check the gear oil level and condition. Refer to the pre-installation instructions for the correct oil type (75w-90, GL-5).
- **Belt Tension:** Ensure the drive belt connected to the supercharger's pulley maintains proper tension.
- **Air Filter:** Maintain a clean air filter for the engine's intake system to prevent contaminants from entering the supercharger.
- **Connections:** Periodically inspect all hoses, clamps, and mounting bolts for tightness and signs of wear or leaks.



*Image 5: Top-down view of the SC14 Supercharger, providing a different perspective of its overall form factor and mounting points.*

## 6. TROUBLESHOOTING

---

As this is a complex automotive component requiring professional installation, detailed troubleshooting steps are beyond the scope of this manual. If you experience any issues with the supercharger's performance or notice unusual noises, vibrations, or leaks, it is strongly recommended to:

- Consult with the professional who performed the installation.
- Seek assistance from a qualified automotive technician specializing in forced induction systems.
- Contact GrfceVue customer support for further guidance.



Image 6: Angled view of the SC14 Supercharger, showing the various contours and connection points.

## 7. SPECIFICATIONS

Attribute	Detail
Manufacturer Part Number	SC14
Material Type	Steel Aluminum
Type	Supercharger (Roots Blower)
Displacement Compatibility	2.0L - 3.5L
Car Maker Compatibility	Universal (e.g., Cherokee, TOYOTA Previa, Buick GL8, HOVER)
Fitment Type	Direct Replacement (with modification)
Condition	Remanufactured
Supercharger Size (Approx.)	40 x 30 x 28 cm (15.75 x 11.81 x 11 inches)
Package Size (Approx.)	43 x 34 x 32 cm
Country of Origin	China



Image 7: Another angled view of the SC14 Supercharger, providing a comprehensive look at its design from a different perspective.

## 8. WARRANTY AND SUPPORT

---

Specific warranty details for the GrfceVue SC14 Universal Supercharger are not provided in the product information. For warranty claims, technical support, or any product-related inquiries, please contact the manufacturer or your point of purchase directly.

**Manufacturer:** GrfceVue\_US

It is recommended to retain your purchase receipt for any warranty or support claims.



