

Volant 17861

Volant Cool Air Intake System 17861 User Manual

Model: 17861 | Brand: Volant

1. PRODUCT OVERVIEW

The Volant Cool Air Intake System, model 17861, is engineered to optimize the air intake path to your vehicle's engine. This system is designed to replace the factory air intake components, aiming for improved airflow efficiency.

Key components and design features include:

- **Custom-Designed Fit:** Engineered for specific vehicle applications to ensure proper integration.
- **Molded Polyethylene Air Ducts:** Provides a smooth, unrestricted pathway for air.
- **High-Performance Air Filter:** Utilizes a cotton gauze filter or PowerCore filter (depending on the specific application) for efficient filtration.
- **Enclosed Air Box:** Designed to shield the air filter from engine heat, promoting cooler air intake (for select models).
- **Volant Box Lid:** Facilitates easy access for filter maintenance.
- **Stainless Steel Marine-Grade Clamps:** Ensures secure connections and durability under engine operating conditions.

2. SETUP AND INSTALLATION

Installation of the Volant Cool Air Intake System requires mechanical aptitude and basic hand tools. It is recommended to consult the detailed installation guide provided with your specific kit for precise, step-by-step instructions. The following is a general overview of the installation process:

1. **Preparation:** Ensure the vehicle's engine is cool. Disconnect the negative terminal of the vehicle's battery.
2. **Remove Factory Air Intake:** Carefully detach and remove the existing air box, intake tube, and associated components. Label any hoses or electrical connectors for reinstallation if necessary.
3. **Install New Air Box (if applicable):** Position and secure the Volant enclosed air box in the designated location.
4. **Assemble Air Filter:** Install the high-performance air filter into the new air box.
5. **Connect Air Ducts:** Attach the molded polyethylene air ducts to the throttle body and the air box, securing them with the provided stainless steel clamps. Ensure all connections are tight to prevent air leaks.
6. **Reconnect Sensors and Hoses:** Reattach any mass airflow sensors, vacuum lines, or other hoses that were

disconnected during the removal of the factory system.

7. **Final Checks:** Double-check all connections, clamps, and sensor attachments. Ensure no tools or loose parts are left in the engine bay.
8. **Battery Reconnection:** Reconnect the negative terminal of the vehicle's battery.

Note: Specific steps and components may vary based on vehicle make, model, and year. Always refer to the detailed instructions included with your Volant kit.

3. OPERATING CONSIDERATIONS

Once installed, the Volant Cool Air Intake System operates automatically with your vehicle's engine. No special operating procedures are required. However, it is advisable to perform periodic visual inspections to ensure optimal performance and longevity.

- **Initial Check:** After installation, start the engine and listen for any unusual noises or air leaks.
- **Regular Inspection:** Periodically check all clamps and connections for tightness. Ensure the air ducts are free from cracks or damage.
- **Filter Condition:** Monitor the condition of the air filter, especially if driving in dusty or harsh environments.

4. MAINTENANCE

Proper maintenance of your Volant Cool Air Intake System, particularly the air filter, is crucial for maintaining performance and engine protection.

Air Filter Cleaning/Replacement

- **Cleaning Interval:** The cleaning interval for the air filter depends on driving conditions. In normal conditions, inspect the filter every 10,000-15,000 miles. In dusty conditions, more frequent inspection and cleaning may be necessary.
- **Cleaning Procedure:** Use a Volant or equivalent air filter cleaning kit. Follow the instructions provided with the cleaning kit carefully. Typically, this involves applying a cleaning solution, rinsing, allowing to dry completely, and then re-oiling the filter (for oiled cotton gauze filters).
- **Replacement:** If the filter is damaged or cannot be cleaned effectively, replace it with a genuine Volant replacement filter for your specific model.

Component Inspection

- Regularly check all hoses, clamps, and the air box for any signs of wear, cracks, or damage. Replace any compromised components immediately.
- Ensure all electrical connections (e.g., MAF sensor) are secure and free from corrosion.

5. TROUBLESHOOTING

If you experience issues after installing your Volant Cool Air Intake System, consider the following common troubleshooting steps:

- **Check Engine Light (CEL):** If a CEL illuminates, ensure all sensors (especially the Mass Air Flow sensor) are correctly reconnected and seated. Check for any vacuum leaks by inspecting all hose connections.
- **Unusual Noises:** Rushing air sounds may indicate a loose clamp or a leak in the intake system. Inspect all connections and tighten clamps as necessary.
- **Reduced Performance:** Ensure the air filter is clean and properly installed. Verify that no obstructions are present in the air ducts.

- **Loose Components:** Periodically check all mounting hardware and clamps for tightness, especially after the first few hundred miles of driving.

If problems persist, it is recommended to contact Volant customer support or consult a qualified automotive technician.

6. SPECIFICATIONS

Model Number	17861
Brand	Volant
Filter Type	High-performance cotton gauze or PowerCore (application dependent)
Filter Color	Blue
Tube Material	Polyethylene
Tube Color	Black
Sleeve Color	Black
Kit Contents	Sold as a complete kit
ASIN	B003I8DYGS
Manufacturer	Volant
First Available Date	April 19, 2010
Compatible Vehicles	2006-2008 Jeep Grand Cherokee SRT8 6.1L

7. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation included with your Volant Cool Air Intake System or visit the official Volant website. For technical support, installation assistance, or parts inquiries, please contact Volant customer service directly.

Contact information can typically be found on the manufacturer's website or within the product packaging.