

edelbrock avs2 installation instructions

Edelbrock AVS2 Installation Instructions

The Edelbrock AVS2 carburetor is a popular choice among automotive enthusiasts for its advanced technology and performance enhancement capabilities. Designed for street and performance applications, the AVS2 features a unique air valve design that provides excellent throttle response and fuel efficiency. Installing the Edelbrock AVS2 can seem daunting, but with the right tools and instructions, it can be a rewarding project. In this comprehensive guide, we will walk you through the installation process step-by-step, ensuring you have all the necessary information to get your vehicle running smoothly with its new carburetor.

Preparation Before Installation

Before you begin the installation process, it's essential to prepare adequately. Proper preparation can make the installation smoother and help avoid any potential issues.

Tools and Materials Needed

Gather the following tools and materials before starting the installation:

- Tools:
 - Wrench set (including socket and ratchet)
 - Screwdrivers (flathead and Phillips)
 - Torque wrench
 - Pliers
 - Vacuum gauge (optional)
 - Fuel line removal tool (if necessary)
- Materials:
 - Edelbrock AVS2 carburetor
 - Carburetor gasket set
 - New fuel line (if required)
 - Cleaner (carburetor or brake cleaner)
 - Rags or shop towels
 - Safety glasses

Safety Precautions

Safety should always be your top priority. Follow these safety precautions during the installation:

- Ensure the engine is cool before starting the installation.
- Disconnect the negative battery terminal to prevent electrical shorts.
- Work in a well-ventilated area to avoid inhaling fumes.
- Wear safety glasses and gloves for protection.

Removing the Old Carburetor

Before installing the Edelbrock AVS2, you need to remove the existing carburetor. Follow these steps:

1. Disconnect Fuel Lines

- Use a fuel line removal tool to disconnect the fuel line from the old carburetor.
- Have a rag handy to catch any spilled fuel.
- Be cautious of fuel spray; a small amount may escape during disconnection.

2. Remove the Air Cleaner Assembly

- Unscrew and remove the air cleaner assembly attached to the old carburetor.
- Set it aside in a safe place.

3. Disconnect Throttle Linkage and Choke Wire

- Carefully disconnect the throttle linkage from the carburetor.
- If your carburetor has an electric choke, unplug the choke wire.

4. Unbolt the Old Carburetor

- Use the appropriate wrench to remove the bolts holding the old carburetor to the intake manifold.
- Lift the carburetor straight up and off the manifold.

5. Clean the Mounting Surface

- Use a scraper or a cleaning solution to remove any old gasket material from the intake manifold.
- Clean the surface thoroughly to ensure a good seal with the new gasket.

Installing the Edelbrock AVS2 Carburetor

Now that the old carburetor is removed, you can proceed with installing the Edelbrock AVS2.

1. Inspect the New Carburetor

- Before installation, inspect the Edelbrock AVS2 for any shipping damage.
- Check that all components, such as the float adjustment and choke settings, are correct.

2. Install the Gasket

- Place the new gasket onto the intake manifold.
- Ensure that the gasket aligns properly with the bolt holes.

3. Position the New Carburetor

- Carefully position the Edelbrock AVS2 over the gasket.
- Align the bolt holes of the carburetor with the holes in the intake manifold.

4. Secure the Carburetor

- Insert the carburetor bolts and hand-tighten them.
- Use a torque wrench to tighten the bolts to the manufacturer's specifications (usually around 20-25 ft-lbs).
- Ensure the carburetor is seated evenly on the gasket.

5. Reconnect Throttle Linkage and Choke Wire

- Reattach the throttle linkage to the new carburetor.
- If applicable, reconnect the electric choke wire.

6. Reinstall the Air Cleaner Assembly

- Position the air cleaner assembly back onto the carburetor.
- Tighten it securely, ensuring a proper seal.

7. Connect Fuel Lines

- Reconnect the fuel line to the carburetor, ensuring it is securely fastened.
- Double-check for any leaks.

Final Steps

With the carburetor installed, there are a few final steps to complete the installation.

1. Check for Leaks

- Reconnect the negative battery terminal.
- Turn the ignition key to the "on" position without starting the engine to allow the fuel pump to prime the system.
- Inspect all connections for any signs of fuel leaks.

2. Adjust the Idle and Mixture Settings

- Start the engine and let it warm up to operating temperature.
- Adjust the idle speed and mixture settings as necessary. Refer to the Edelbrock AVS2 manual for specific adjustment procedures.

3. Test Drive the Vehicle

- Take the vehicle for a test drive to ensure everything operates correctly.
- Pay attention to throttle response, idle stability, and overall performance.

Troubleshooting Common Issues

Even with a proper installation, you may encounter some common issues. Here

are some troubleshooting tips:

1. Engine Won't Start

- Ensure the fuel line is properly connected and that there are no leaks.
- Check the throttle linkage to ensure it is functioning correctly.
- Confirm that the choke is set properly.

2. Poor Idle Quality

- Check the idle speed adjustment.
- Inspect the mixture settings; make adjustments as needed.
- Look for vacuum leaks around the carburetor base and intake manifold.

3. Hesitation on Acceleration

- Inspect the accelerator pump adjustment.
- Ensure the air-fuel mixture is correct.
- Check for any blockages in the fuel line.

Conclusion

Installing the Edelbrock AVS2 carburetor can significantly enhance your vehicle's performance. With the right tools, preparation, and attention to detail, you can ensure a successful installation. Following the steps outlined in this guide will help you navigate the process smoothly. Remember to take your time, double-check your work, and enjoy the improved throttle response and efficiency that the Edelbrock AVS2 brings to your engine. Happy driving!

Frequently Asked Questions

What tools are required for installing the Edelbrock AVS2 carburetor?

You will need a basic set of hand tools including a socket set, wrenches, screwdrivers, and possibly a torque wrench for proper installation.

Are there any specific adjustments needed after installing the Edelbrock AVS2?

Yes, after installation, you'll need to adjust the idle speed, mixture screws, and possibly the float level to ensure optimal performance.

Can I install the Edelbrock AVS2 on a vehicle with a factory intake manifold?

Yes, the Edelbrock AVS2 is designed to fit most factory intake manifolds, but it's important to check compatibility with your specific engine model.

What are the common troubleshooting steps if my Edelbrock AVS2 is not performing well after installation?

Common troubleshooting steps include checking for vacuum leaks, ensuring proper fuel level in the float bowl, and verifying that the choke is functioning correctly.

Is it necessary to replace the fuel lines when installing the Edelbrock AVS2?

While it's not always necessary, it is a good idea to inspect the fuel lines for wear and replace them if they show signs of damage or deterioration.

Where can I find the official installation instructions for the Edelbrock AVS2?

The official installation instructions can be found on Edelbrock's website or in the product packaging that comes with the carburetor.

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