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› Edelbrock 8059 Solenoid and Bracket Instruction Manual

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For Performer and Thunder AVS Series Carburetors

1. INTRODUCTION

The Edelbrock 8059 Solenoid and Bracket assembly is designed to provide idle compensation for vehicles equipped with air conditioning, specifically when used with Edelbrock Performer or Thunder AVS Series Carburetors. This system helps maintain a consistent engine idle speed by increasing it when the air conditioning compressor engages, preventing engine stalling due to increased load.

Product Contents

- 1x Solenoid
- 1x Mounting Bracket
- Associated Hardware (washer, nut, stud)



Image 1.1: Complete Edelbrock 8059 Solenoid and Bracket assembly, including the solenoid, mounting bracket, washer, nut, and stud.

Safety Information

Always exercise caution when working on automotive systems. Ensure the engine is off and cool before beginning any installation or maintenance. Disconnect the battery to prevent accidental electrical shorts.



Image 1.2: California Proposition 65 Warning. This product may expose you to chemicals known to the State of California to cause cancer or birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

2. SETUP AND INSTALLATION

Proper installation of the Edelbrock 8059 Solenoid and Bracket is crucial for optimal performance. This unit is designed to integrate with your carburetor's throttle linkage to provide an adjustable idle increase.

Installation Steps

1. **Prepare the Carburetor:** Ensure your Edelbrock Performer or Thunder AVS Series Carburetor is clean and properly installed on the engine.
2. **Mount the Bracket:** Attach the provided mounting bracket to the designated location on your carburetor. Refer to your carburetor's specific instructions for the exact mounting point. Secure it firmly with the supplied hardware.
3. **Install the Solenoid:** Thread the solenoid into the bracket. The plunger end of the solenoid should align with the carburetor's throttle linkage.
4. **Adjust Solenoid Position:** With the engine off, manually activate the throttle to ensure the solenoid plunger can make contact with the throttle lever without binding. Adjust the solenoid's position within the bracket to achieve proper alignment and travel.
5. **Wire the Solenoid:** Connect the solenoid's electrical terminal to a switched 12-volt power source that is active when the air conditioning compressor is engaged. This typically involves tapping into the A/C compressor clutch wire or a

dedicated A/C idle-up circuit. Ensure all electrical connections are secure and insulated.

6. **Initial Adjustment:** Start the engine and allow it to reach operating temperature. With the A/C off, set your normal engine idle speed. Then, turn the A/C on. The solenoid should extend and increase the idle speed. Adjust the solenoid's plunger depth (by rotating the solenoid in the bracket) until the desired idle speed is achieved with the A/C on. A slight tap on the accelerator pedal may be required for the solenoid to fully engage initially.



Image 2.1: Close-up view of the Edelbrock solenoid, showing the electrical terminal and the adjustable plunger.

3. OPERATING INSTRUCTIONS

Once installed and properly adjusted, the Edelbrock 8059 Solenoid operates automatically. When the air conditioning system is activated, the solenoid receives power, causing its plunger to extend and push against the carburetor's throttle linkage. This action slightly opens the throttle plates, increasing the engine's idle speed to compensate for the additional load imposed by the A/C compressor.

Upon deactivation of the A/C system, power to the solenoid is cut, and the plunger retracts, allowing the engine to return to its normal idle speed. It is common for the solenoid to require a brief tap of the accelerator pedal to fully engage or disengage, ensuring smooth transition between idle speeds.

4. MAINTENANCE

The Edelbrock 8059 Solenoid and Bracket is designed for durability and requires minimal maintenance. Regular inspection can help ensure its continued reliable operation.

- **Visual Inspection:** Periodically check the solenoid and bracket for any signs of damage, corrosion, or loose connections. Ensure the plunger moves freely without obstruction.

- **Electrical Connections:** Verify that all electrical connections are clean, tight, and free from corrosion. Loose or corroded connections can lead to intermittent operation.
- **Cleaning:** If necessary, gently clean the exterior of the solenoid and bracket with a mild automotive cleaner and a soft cloth. Avoid spraying directly into the solenoid's internal components.

5. TROUBLESHOOTING

If you experience issues with your Edelbrock 8059 Solenoid and Bracket, consult the following troubleshooting guide:

- **Symptom: Solenoid does not engage when A/C is turned on.**
Possible Causes: No power to solenoid, faulty wiring, or defective solenoid.
Solution: Check electrical connections and wiring for continuity. Verify 12-volt power is present at the solenoid terminal when A/C is on. If power is present and connections are good, the solenoid may be faulty and require replacement.
- **Symptom: Idle speed is too low or too high with A/C on.**
Possible Causes: Incorrect solenoid plunger adjustment.
Solution: Adjust the solenoid plunger depth by rotating the solenoid within its bracket until the desired idle speed is achieved with the A/C on. Ensure the normal idle speed (A/C off) is set correctly first.
- **Symptom: Solenoid engages intermittently or inconsistently.**
Possible Causes: Loose electrical connections, intermittent power supply, or internal solenoid issue.
Solution: Inspect all wiring and connections for tightness and corrosion. Test the power supply for consistency. If issues persist, the solenoid may be failing.
- **Symptom: Solenoid plunger binds or does not move freely.**
Possible Causes: Misalignment with throttle linkage, debris, or internal mechanical failure.
Solution: Check for proper alignment of the solenoid plunger with the throttle lever. Ensure no debris is obstructing movement. If binding continues, the solenoid may be damaged.

6. SPECIFICATIONS

Specification	Detail
Manufacturer	Edelbrock
Model Number	8059
Item Weight	10.3 ounces
Exterior Finish	Satin
Product Type	Auto Part (Solenoid and Bracket)
Country Of Origin	United States

7. WARRANTY AND SUPPORT

Edelbrock products are manufactured to high standards and are backed by a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your purchase or visit the official Edelbrock website. If you require technical assistance, have questions regarding installation, or need to report a product issue, please contact

Edelbrock customer support directly. Contact information can typically be found on the Edelbrock website or product packaging.

Edelbrock Official Website: www.edelbrock.com

Ask a question about this manual

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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