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Cardone 12-10284

Instruction Manual for Cardone 12-10284 Remanufactured ABS Control Module

Model: 12-10284 | Brand: Cardone

1. Product Overview

The Cardone 12-10284 Remanufactured ABS Control Module is engineered to meet or exceed original equipment (O.E.) performance standards. This module is a critical component of your vehicle's Anti-lock Braking System (ABS), designed to prevent wheel lock-up during hard braking, thereby maintaining steering control and reducing stopping distances.

Key features of this remanufactured module include:

- Guaranteed perfect vehicle fit as a remanufactured Original Equipment part.
- Replacement of worn-out, missing, or non-functioning components with new or rebuilt parts.
- Re-soldered critical components for superior electrical connections, eliminating intermittent failures and extending product life.
- 100% computer testing to ensure consistent performance and air-decay testing to confirm the unit is void of brake fluid.
- An earth-friendly remanufacturing process that reduces energy and raw material consumption by 80%.

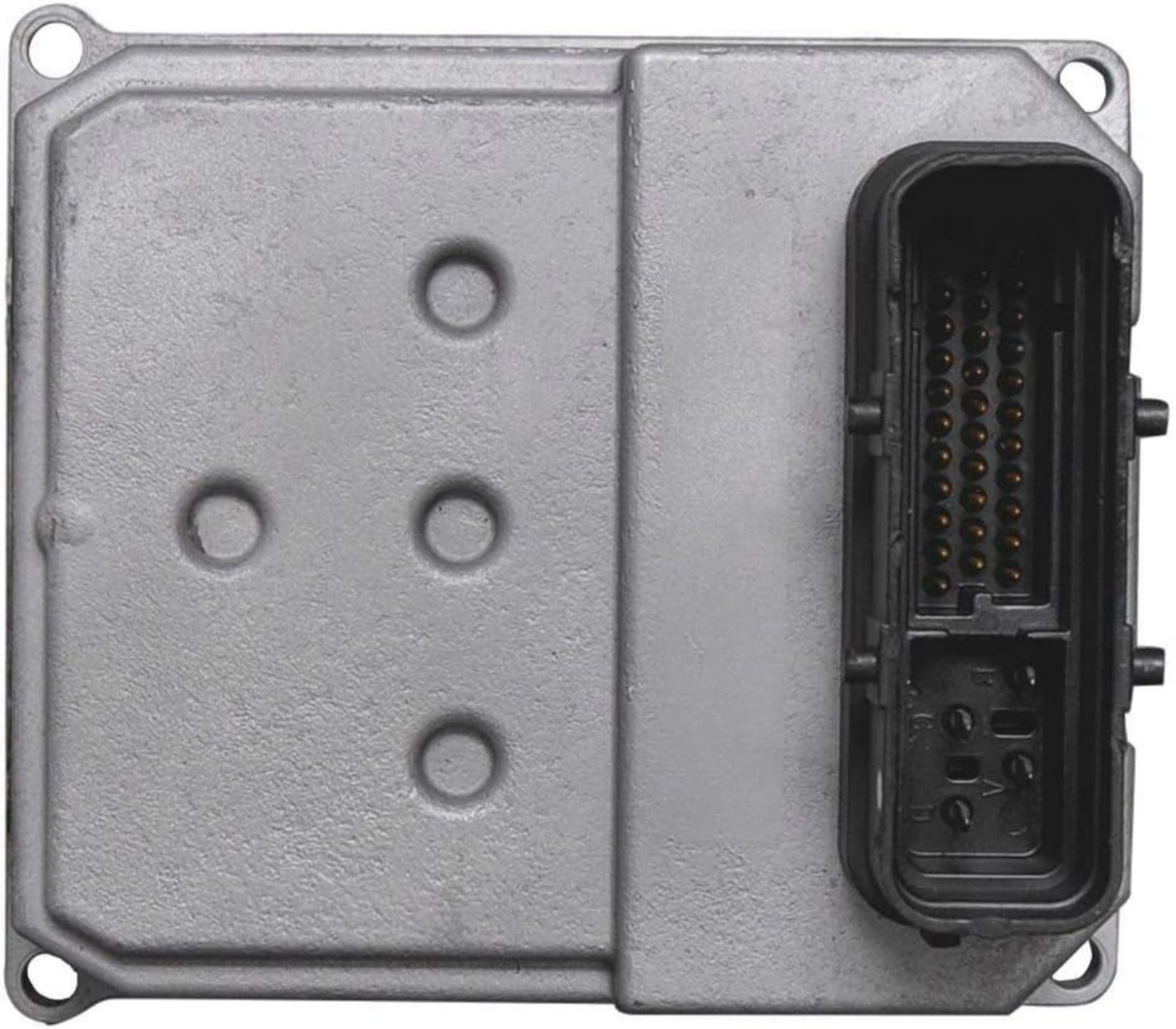


Figure 1.1: Top view of the ABS Control Module, showing the main housing and electrical connector port.

2. Installation and Setup

Installation of an ABS control module should ideally be performed by a qualified automotive technician. Incorrect installation can lead to system malfunctions and compromise vehicle safety. Always refer to your vehicle's specific service manual for detailed instructions.

2.1. Safety Precautions

- Disconnect the vehicle's battery before beginning any work on the electrical system.
- Ensure the vehicle is securely supported on jack stands if lifting is required.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Allow the vehicle's brake system to cool down if it has recently been operated.

2.2. Installation Steps (General)

1. Locate the existing ABS control module in your vehicle. Its location varies by make and model, but it is typically found near the master cylinder or integrated with the hydraulic control unit.
2. Carefully disconnect the electrical connectors from the old module. Note the orientation and any locking tabs.

3. Remove any mounting bolts or clips securing the module. If the module is integrated with the hydraulic unit, you may need to separate them.
4. Install the new Cardone 12-10284 module in the reverse order of removal. Ensure all connections are secure and properly seated.
5. Reconnect the vehicle's battery.
6. Perform any necessary system bleeding or calibration procedures as specified by your vehicle manufacturer. This often requires a diagnostic scan tool.
7. Test the ABS system by driving the vehicle in a safe, controlled environment and performing a controlled stop to activate the ABS.

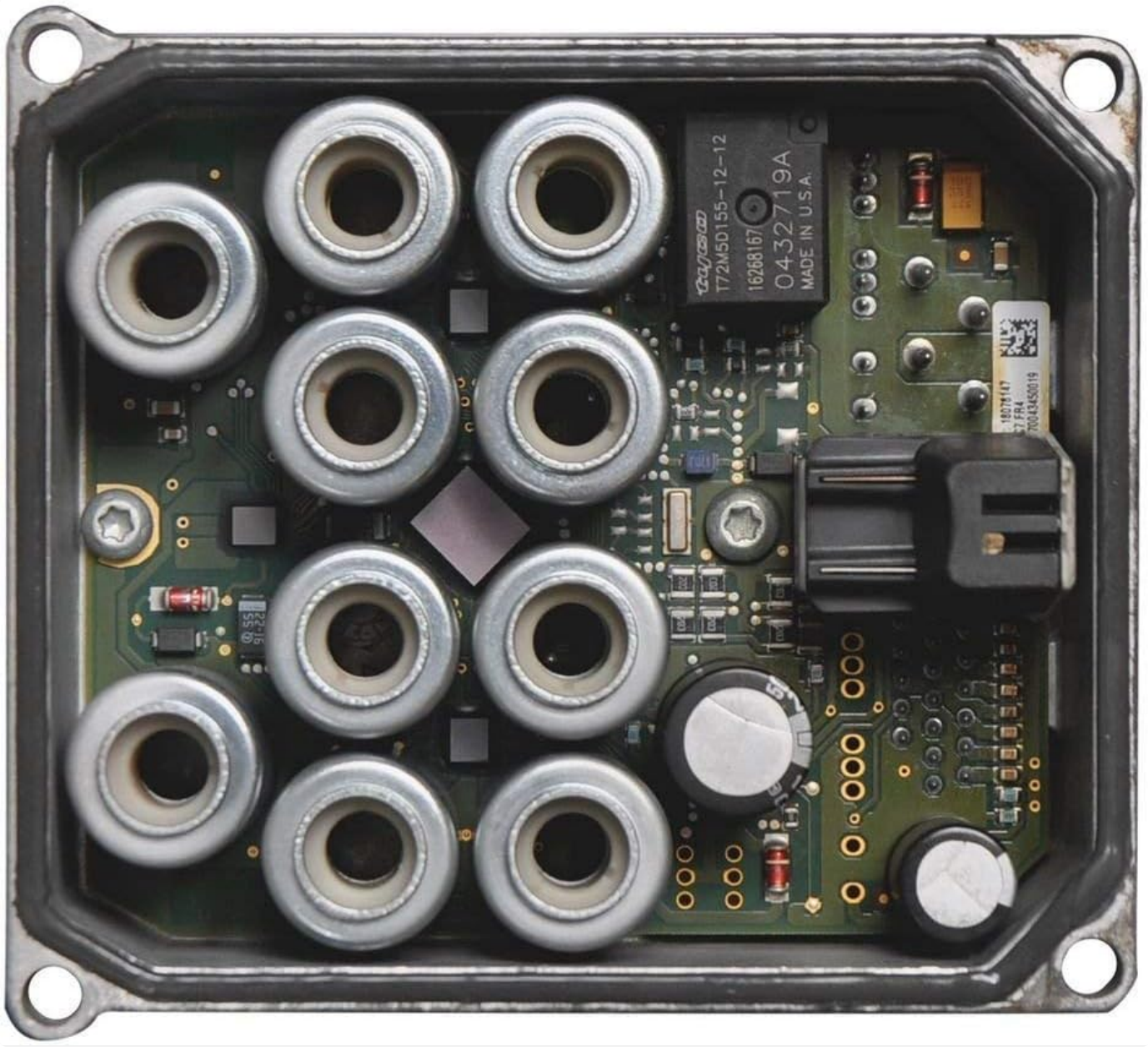


Figure 2.1: Internal view of the ABS Control Module, showing the sophisticated circuit board and solenoid valves.

3. Operating Principles

The Anti-lock Braking System (ABS) is a safety system that allows the wheels on a motor vehicle to maintain tractive contact with the road surface according to driver inputs while braking, preventing the wheels from locking up (ceasing to rotate) and avoiding uncontrolled skidding. The Cardone 12-10284 ABS Control Module is the "brain" of this system.

During braking, the module continuously monitors the speed of each wheel via wheel speed sensors. If it detects that a

wheel is about to lock up, it rapidly modulates the brake pressure to that specific wheel, allowing it to continue rotating. This modulation occurs many times per second, providing optimal braking force without losing steering control.

When the ABS system is active, you may feel a pulsation in the brake pedal and hear a grinding or buzzing noise. This is normal operation and indicates the system is working as intended.

4. Maintenance

As a sealed electronic component, the Cardone 12-10284 Remanufactured ABS Control Module requires no routine maintenance itself. However, proper functioning of the ABS system relies on the health of other components.

- **Brake Fluid:** Ensure your vehicle's brake fluid is at the correct level and is replaced according to the manufacturer's recommendations. Contaminated or low brake fluid can affect ABS performance.
- **Wheel Speed Sensors:** Periodically inspect wheel speed sensors and their wiring for damage or debris. Clean any accumulated dirt or metallic particles.
- **Brake System Components:** Regularly check brake pads, rotors, calipers, and lines for wear or damage. A healthy overall brake system is crucial for optimal ABS operation.
- **Diagnostic Scans:** If the ABS warning light illuminates on your dashboard, it indicates a fault within the system. Have your vehicle scanned by a qualified technician to retrieve diagnostic trouble codes (DTCs) and identify the specific issue.



Figure 4.1: Side view of the ABS Control Module, showing its compact design and mounting points.

5. Troubleshooting

If you experience issues with your ABS system after installing the Cardone 12-10284 module, consider the following common troubleshooting steps. Always consult a professional mechanic if you are unsure.

Symptom	Possible Cause	Solution
ABS Warning Light On	Faulty wheel speed sensor, wiring issue, low brake fluid, or other ABS component failure.	Scan for diagnostic trouble codes (DTCs). Inspect wheel speed sensors and wiring. Check brake fluid level.
Brake Pedal Pulsation (when not braking hard)	Air in the brake lines, faulty wheel speed sensor, or hydraulic unit issue.	Bleed the brake system. Check wheel speed sensor readings with a scan tool.
No ABS Activation During Hard Braking	Faulty ABS module, wheel speed sensor issue, or hydraulic unit problem.	Verify module installation. Check wheel speed sensor signals. Professional diagnosis recommended.
Brakes Lock Up Easily	ABS system not functioning, possibly due to a module or sensor fault.	Have the ABS system professionally diagnosed and repaired immediately.

Note: Many ABS system issues require specialized diagnostic tools and expertise. It is highly recommended to seek assistance from a certified automotive technician for complex problems.



Figure 5.1: Another view of the ABS Control Module, potentially showing the hydraulic block interface.

6. Specifications

Attribute	Detail

Attribute	Detail
Brand	Cardone
Model Number	12-10284
Product Dimensions	6 x 7 x 5 inches
Item Weight	1.58 pounds
Manufacturer Part Number	12-10284
Country of Origin	USA
Condition	Remanufactured (Renewed)

7. Warranty and Support

This Cardone Remanufactured ABS Control Module is offered as a renewed product. While specific warranty details for renewed items can vary, Amazon Renewed products typically come with a 90-day refund or replacement policy from Amazon, ensuring your satisfaction.

For detailed warranty information or to initiate a return/replacement, please refer to the Amazon Renewed program terms and conditions or contact Amazon customer service directly.

For technical support regarding Cardone products, you may visit the official Cardone website or consult with a certified automotive technician. Always provide your product model number (12-10284) when seeking support.

Online Resources:

- Amazon Renewed Store
- Cardone Official Website (External Link)

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