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Mopar 82215652AB

Mopar 82215652AB Integrated Trailer Brake Module User Manual

For Jeep Wrangler and Gladiator Vehicles

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Mopar 82215652AB Integrated Trailer Brake Module. This module is designed to provide seamless and effective control of electric trailer brakes, enhancing towing safety and performance for compatible Jeep Wrangler and Gladiator vehicles.

The Mopar Integrated Trailer Brake Module integrates directly into your vehicle's electrical system, offering a factory-installed appearance and functionality. Proper installation and understanding of its operation are crucial for optimal performance.



Figure 1: Mopar 82215652AB Integrated Trailer Brake Module. This image displays the compact design of the module, which is intended for integration into the vehicle's dashboard area.

2. SAFETY INFORMATION

Read all instructions carefully before attempting installation or operation. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Professional Installation Recommended:** Due to the complexity of vehicle electrical systems and the critical safety function of trailer brakes, professional installation by a certified technician is highly recommended.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before performing any electrical work to prevent electrical shock or damage to vehicle components.
- **Use Proper Tools:** Ensure you have the correct tools for the job. Using incorrect tools can damage fasteners or components.
- **Vehicle-Specific Procedures:** This manual provides general guidance. Always refer to your specific vehicle's service manual for detailed, vehicle-specific installation and programming procedures.
- **Test System:** After installation, thoroughly test the trailer brake system in a safe, controlled environment before towing on public roads.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Trailer Brake Module

Note: Additional fasteners or wiring harnesses may be required and are typically sold separately or are part of the vehicle's existing wiring.

4. INSTALLATION

The Mopar Integrated Trailer Brake Module is designed for direct integration into compatible Jeep Wrangler and Gladiator vehicles. The installation process typically involves replacing an existing power outlet or lighter socket with the brake control dial knob and connecting the module to the vehicle's wiring harness.

General Installation Steps:

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative battery terminal.
2. **Access Dashboard Area:** Carefully remove the necessary trim panels to gain access to the area where the brake controller will be installed, typically near the stereo or center console.
3. **Locate Wiring Harness:** Identify the vehicle's pre-wired trailer brake control harness. This is often located under the driver's side dash or behind the center console.
4. **Module Placement:** Install the brake control dial knob into the designated opening, often replacing an existing 12V power outlet. Connect the module to the vehicle's wiring harness. This step may require working in confined spaces under the dash.
5. **Secure Components:** Ensure all components are securely mounted and wiring is routed safely, away from moving parts or heat sources.
6. **Reassemble:** Reinstall all removed trim panels.
7. **Reconnect Battery:** Reconnect the negative battery terminal.
8. **Vehicle Programming:** After physical installation, the vehicle's computer system (PCM/BCM) must be programmed to recognize and activate the integrated trailer brake module. This step typically requires specialized diagnostic tools available at an authorized Mopar service center.

***Important:** For detailed, step-by-step instructions specific to your vehicle's model year and trim, consult the official Mopar service manual or refer to reputable online video tutorials. These resources can provide visual guidance for navigating the vehicle's interior and electrical connections.*

5. OPERATING INSTRUCTIONS

Once installed and properly programmed, the Mopar Integrated Trailer Brake Module operates automatically when a trailer equipped with electric brakes is connected to your vehicle's trailer wiring harness.

Key Operational Features:

- **Automatic Activation:** The module will detect a connected trailer with electric brakes and become active.
- **Brake Gain Adjustment:** The integrated dial knob allows you to adjust the amount of braking force applied to the trailer. Turn the knob clockwise to increase braking force and counter-clockwise to decrease it. Adjust the gain to achieve smooth, synchronized braking between the vehicle and the trailer.
- **Manual Override:** Pushing the dial knob typically activates the trailer brakes independently of the vehicle's brakes, providing a manual override function. This can be useful for reducing trailer sway or testing the trailer brakes.
- **Indicator Light:** The module's indicator light will typically illuminate only when a trailer with electric brakes is connected and the system is active. It may briefly illuminate at vehicle startup and then turn off if no trailer is detected.

***Recommendation:** Always test the brake gain setting in a safe area before driving on public roads. Start with a lower gain setting and gradually increase it until the trailer brakes are firm but do not lock up.*

6. MAINTENANCE

The Mopar Integrated Trailer Brake Module requires minimal maintenance. Regular checks can help ensure its continued reliable operation.

- **Inspect Connections:** Periodically check all wiring connections to the module and the trailer wiring harness for corrosion, damage, or looseness.
- **Clean Module:** Keep the visible part of the control knob clean and free of dust or debris. Use a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Trailer Wiring:** Ensure your trailer's wiring and brake components are in good working order, as issues with the trailer can affect the performance of the integrated module.

7. TROUBLESHOOTING

If you experience issues with your Mopar Integrated Trailer Brake Module, consider the following troubleshooting steps:

- **Module Not Responding / No Indicator Light:**
 - Ensure a trailer with electric brakes is properly connected to the vehicle's trailer wiring harness.
 - Verify that the vehicle's computer system has been programmed to activate the module after installation. This is a common cause for non-operation.
 - Check all electrical connections for looseness or corrosion.
 - Inspect the vehicle's fuses related to the trailer tow package.
- **Incorrect Braking Force:**
 - Adjust the brake gain using the dial knob.
 - Ensure the trailer's brakes are properly adjusted and in good working condition.
 - Check the trailer's wiring for shorts or open circuits.
- **Module Malfunction:** If the module exhibits erratic behavior or fails to function despite troubleshooting, it may indicate an internal fault. In such cases, professional diagnosis by an authorized Mopar service center is recommended.

8. SPECIFICATIONS

Manufacturer	Mopar
Brand	Mopar
Model Name	Trailer Brake Module
Manufacturer Part Number	82215652AB
Item Model Number	82215652AD
Item Weight	1 pounds
Product Dimensions	6 x 6 x 4 inches
Exterior Finish	Machined
ASIN	B09PCF2NH8

9. WARRANTY AND SUPPORT

For information regarding the warranty coverage for your Mopar 82215652AB Integrated Trailer Brake Module, please refer to the official Mopar warranty documentation provided with your purchase or consult an authorized Mopar dealer.

If you require technical assistance, installation support, or have questions not covered in this manual, please contact Mopar Customer Service or visit an authorized Mopar service center. Ensure you have your vehicle information and the module's part number (82215652AB) available when seeking support.