Dakota Digital MBM-19

Dakota Digital MBM-19 Air Suspension PSI Module User Manual

Model: MBM-19

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Dakota Digital MBM-19 Air Suspension PSI Module. Please read this manual thoroughly before attempting installation or operation to ensure proper function and to prevent damage to the unit or vehicle.

2. Safety Information

Always disconnect the vehicle's battery before performing any electrical work. Ensure all connections are secure and properly insulated to prevent short circuits. Consult a professional automotive technician if you are unsure about any installation steps. Wear appropriate safety gear, including eye protection, during installation.

3. What's in the Box

Carefully unpack the contents and verify that all items are present. If any components are missing or damaged, contact Dakota Digital customer support immediately.

- MBM-19 Module
- Pressure Sender (1)
- Wiring Harnesses
- Zip Ties for cable management
- Air Line Fitting



Figure 1: Contents of the Dakota Digital MBM-19 package. Shown are the MBM-19 module, a brass pressure sender, various wiring harnesses with connectors, an air line fitting, and a bundle of zip ties.

4. Setup and Installation

Follow these steps for proper installation of the MBM-19 module.

1. **Mounting the Module:** Select a secure, dry location within the vehicle, away from excessive heat or moisture. Use appropriate fasteners (not included) to mount the MBM-19 module.
2. **Wiring Connections:**
    - Connect the main power and ground wires to a switched 12V power source and a reliable chassis ground, respectively.
    - Connect the pressure sender wiring harness to the MBM-19 module.
    - Connect the output wires from the MBM-19 module to your compatible Dakota Digital display or control unit. Refer to your display unit's manual for specific input requirements.
3. **Pressure Sender Installation:**
    - Install the pressure sender into your air suspension system's air tank or air line, ensuring a leak-free connection. Use thread sealant if necessary.
    - Connect the air line to the provided air line fitting on the pressure sender.
4. **Cable Management:** Use the provided zip ties to secure all wiring harnesses, preventing them from interfering with moving parts or being damaged by heat or abrasion.
5. **Final Check:** Double-check all connections for security and proper routing before reconnecting the vehicle's battery.

5. Operating Instructions

The MBM-19 module is designed to provide accurate air pressure readings to a compatible Dakota Digital display. Once installed and powered, the module will automatically begin transmitting pressure data.

- **Power On:** Turn the vehicle's ignition to the 'ON' position. The MBM-19 module will power on and begin sensing pressure.
- **Display Readings:** The air pressure readings will be displayed on your connected Dakota Digital

display unit. Refer to your display unit's manual for information on how to view and interpret the pressure data.

- **Calibration:** The MBM-19 module and its sender are factory calibrated. No user calibration is typically required. If you suspect inaccurate readings, consult the troubleshooting section or contact support.

6. Maintenance

The Dakota Digital MBM-19 module requires minimal maintenance.

- **Regular Inspection:** Periodically inspect all wiring and connections for signs of wear, corrosion, or damage. Ensure the module remains securely mounted.
- **Cleaning:** Keep the module and sender free from excessive dirt and debris. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.
- **Air System Integrity:** Ensure your air suspension system is free of leaks, as this can affect pressure readings and system performance.

7. Troubleshooting

If you encounter issues with your MBM-19 module, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No pressure reading on display	No power to module; faulty wiring; disconnected sender; faulty display unit.	Check power and ground connections. Verify sender wiring. Ensure display unit is functioning correctly.
Inaccurate pressure readings	Air leak in system; faulty sender; electrical interference.	Check air lines and fittings for leaks. Inspect sender for damage. Ensure wiring is routed away from high-voltage sources.
Module not communicating with display	Incorrect wiring to display; incompatible display; module fault.	Verify communication wiring. Confirm display unit compatibility. Contact support if issues persist.

If troubleshooting steps do not resolve the issue, contact Dakota Digital customer support for further assistance.

8. Specifications

Feature	Detail
Model Number	MBM-19
Manufacturer	Dakota Digital
Item Weight	8 ounces
Product Dimensions	5.77 x 5.35 x 2.29 inches
Exterior Finish	Painted

Feature	Detail
Number of Senders Supported	One (1)
Compatibility	Dakota Digital display systems

9. Warranty and Support

For warranty information, please refer to the official Dakota Digital website or the warranty card included with your purchase. For technical support, installation assistance, or to report a problem, please contact Dakota Digital customer service directly.

Dakota Digital Contact Information:

Please visit the official Dakota Digital website for the most current contact details, including phone numbers and email addresses for technical support.

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