

DB Electrical ADR6001

DB Electrical ADR6001 12V External Voltage Regulator User Manual

Model: ADR6001 | Brand: DB Electrical

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1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your DB Electrical ADR6001 12 Volt External Voltage Regulator. This unit is designed to meet OEM specifications for various Delco 10DN, 20DN, D630, D635 applications, as well as older tractors and vehicles requiring part numbers such as 1119502 and 1119506. Please read this manual thoroughly before proceeding with installation or use.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury or damage to the product and vehicle:

- Disconnect the vehicle's battery before performing any electrical work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle's ignition is off and the parking brake is engaged.
- Consult a qualified automotive technician if you are unsure about any installation or troubleshooting steps.
- Do not attempt to modify the voltage regulator.

3. PRODUCT OVERVIEW

The DB Electrical ADR6001 is a 12-volt external voltage regulator designed for automotive applications. It is engineered to provide reliable voltage regulation for your vehicle's charging system.

3.1 Features

- 100% New aftermarket Regulator built to meet OEM specifications.
- Designed for 12 Volt systems.
- Compatible with Delco 10DN and 20DN alternators.
- Replaces various OEM part numbers including CATERPILLAR: 9L7309, 9L7648; CUMMINS: 156960, 191818; DELCO: 1119502, 1119506, 1119512, 1119515, 1119516, 1119519, D630, D635, D663; INTL HARVESTER: 967867R91; MASSEY FERGUSON: 1031060M1, 1031060M92, 1031060V92; MINNEAPOLIS-MOLINE: 10P3009; WAGNER: D09-26, D09-28.

3.2 Specifications

Voltage	12V
Item Weight	6.4 ounces
Product Dimensions	5 x 4 x 3 inches
Model Number	ADR6001
Manufacturer Part Number	230-12099

3.3 Product Images



Image 1: Top view of the DB Electrical ADR6001 12V External Voltage Regulator, showing the black casing and terminal connections.



Image 2: Side view of the DB Electrical ADR6001 12V External Voltage Regulator, highlighting the mounting bracket and overall compact design.

4. INSTALLATION

Installation of the external voltage regulator typically involves replacing an existing unit. Refer to your vehicle's specific service manual for detailed wiring diagrams and mounting procedures. The following are general steps:

1. **Disconnect Battery:** Always disconnect the negative terminal of the vehicle's battery before starting any electrical work.
2. **Locate Old Regulator:** Identify the old voltage regulator. It is usually mounted on the firewall, fender, or radiator

support.

- 3. **Disconnect Wiring:** Carefully disconnect all electrical connectors from the old regulator. Note the position of each wire for correct re-connection. Taking a photo before disconnecting can be helpful.
- 4. **Remove Old Regulator:** Unbolt and remove the old voltage regulator from its mounting location.
- 5. **Mount New Regulator:** Position the new DB Electrical ADR6001 regulator in the same location and secure it with appropriate fasteners.
- 6. **Connect Wiring:** Reconnect the electrical wires to the new regulator, ensuring each wire is attached to its correct terminal. Refer to your vehicle's wiring diagram if unsure.
- 7. **Reconnect Battery:** Once all connections are secure, reconnect the negative battery terminal.
- 8. **Test System:** Start the vehicle and check the charging system voltage with a multimeter. The voltage should typically be between 13.8V and 14.8V.

For a visual guide on diagnosing electrical issues like parasitic draw, which can indicate a faulty regulator, please refer to the video below:

Your browser does not support the video tag.

Video: Demonstrates how to test for a parasitic draw on a vehicle's battery, a common symptom of a failing voltage regulator or other electrical issues. This diagnostic step is crucial before replacing the regulator.

5. OPERATION

The DB Electrical ADR6001 External Voltage Regulator operates automatically to maintain a stable charging voltage for your vehicle's battery and electrical system. Once correctly installed, it continuously monitors the system voltage and adjusts the alternator's output to prevent overcharging or undercharging. No user intervention is required during normal operation.

6. MAINTENANCE

The voltage regulator is a sealed unit and requires no internal maintenance. To ensure optimal performance and longevity:

- Periodically inspect all wiring connections to the regulator for tightness and corrosion. Clean any corroded terminals.
- Ensure the mounting location is free from excessive heat, moisture, and vibration.
- Regularly check your vehicle's battery and charging system for proper function.

7. TROUBLESHOOTING

If you experience issues with your vehicle's charging system after installing the new voltage regulator, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Battery constantly dead/low charge	Parasitic draw, faulty alternator, loose connections, or incorrect wiring.	Check for parasitic draw (as shown in the installation video). Inspect alternator and all wiring connections. Verify correct wiring to the regulator.
Overcharging (high voltage reading)	Faulty voltage regulator (internal short), incorrect regulator for application.	Confirm regulator is correct for your vehicle. If issue persists, the regulator may be faulty.
No charge (low voltage reading, battery light on)	Faulty alternator, loose or corroded connections, broken drive belt, or faulty regulator.	Check alternator belt tension. Inspect all wiring and connections. Test alternator output. If all else is good, the regulator may be faulty.

If troubleshooting steps do not resolve the issue, contact DB Electrical customer support or a certified automotive technician.

8. WARRANTY AND SUPPORT

The DB Electrical ADR6001 External Voltage Regulator comes with a **1-year warranty** from the date of purchase, protecting against manufacturing defects. For warranty claims, technical assistance, or product inquiries, please contact DB Electrical customer support.

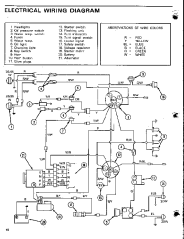


Manufacturer: DB Electrical




For further assistance, visit the [DB Electrical Store on Amazon](#).

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This manual is for informational purposes only. DB Electrical is not responsible for any damage or injury resulting from improper installation or use of this product.

Related Documents - ADR6001

	<p>Iseki Bolens TX2140/TX2160 Tractors Electrical Wiring Diagram</p> <p>Detailed electrical wiring diagram for Iseki Bolens TX2140 and TX2160 tractors, outlining component connections and wire color codes.</p>
	<p>ABB PCS100 AVC-20 Active Voltage Conditioner Technical Catalogue</p> <p>This technical catalogue provides comprehensive information on the ABB PCS100 AVC-20 Active Voltage Conditioner, detailing its features, benefits, technical specifications, applications, selection guide, layout plans, options, user interface, connections, installation requirements, and service support.</p>
	<p>K-FACTOR VSA Range Servo Voltage Stabilizer User Manual</p> <p>Comprehensive user manual for the K-FACTOR VSA Range Single Phase Servo Voltage Stabilizer (5-50 KVA). Covers specifications, installation, operation, safety, troubleshooting, and technical data for small offices and home applications.</p>

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<div><div><div><div></div><div>KEMOT®</div></div><div><div>AUTOMATIC VOLTAGE REGULATOR</div><div>SER-1000 - URZ3412</div><div>SER-2000 - URZ3413</div><div>SER-3000 - URZ3414</div><div>SER-500 - URZ3418</div></div><div><div>Instructions en français</div><div>Özel talimatlar</div><div>Инструкция на русском</div><div>Manual de instrucciones</div><div>Manuale de utilizare</div><div>Manual na polsku</div></div></div></div>	<p>KEMOT Automatic Voltage Regulator SER Series User Manual</p> <p>This manual provides comprehensive instructions for KEMOT Automatic Voltage Regulators, including models SER-1000 (URZ3412), SER-2000 (URZ3413), SER-3000 (URZ3414), and SER-500 (URZ3418). It covers essential safety precautions, detailed product descriptions of the front and back panels, explanations of indicators and error messages, cleaning guidelines, and technical specifications. The manual is designed to ensure safe and efficient operation of the voltage regulators.</p>