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› DB Electrical Alternator 400-29057 Instruction Manual

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DB Electrical Alternator 400-29057 Instruction Manual

Brand: DB Electrical | Model: 400-29057

PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your DB Electrical Alternator, model 400-29057. This high-quality aftermarket alternator is designed to meet OEM specifications for various AGCO, AGCO Challenger, and TUG applications, ensuring reliable performance for your vehicle's electrical system.



Image: Front view of the DB Electrical Alternator 400-29057, showcasing its robust housing and pulley shaft.

SPECIFICATIONS

Detailed specifications for the DB Electrical Alternator 400-29057 are provided below:

Attribute	Value
Unit Type	Alternator
Voltage	12V
Amperage	120 Amps
Rotation	CW (Clockwise)
Regulator Type	IR (Internal Regulator)
Fan Type	IF (Internal Fan)

Attribute	Value
Mounting Ear Holes	10.2mm Unthreaded
B+ Terminal	M8-1.25
D+ Terminal	M5-0.8
W- Terminal	M5-0.8
Shaft Threads	M16-1.5
Mounting Feet	At 10:00 & 6:00 Viewed from SRE
OEM Part Numbers Replaced	AGCO: 4280470F91, 4281878M92, 4281878M93, 4281880M92, 4281880M93, 4288341M91; Arrowhead: 400-29057; BOSCH: 0-123-512-502; DEUTZ: 0118-3606; J & N: 400-29057; KHD: 118-3606; LESTER: 12381; LETRIKA (ISKRA) OEM: 11.201.794, 11.203.051, etc.

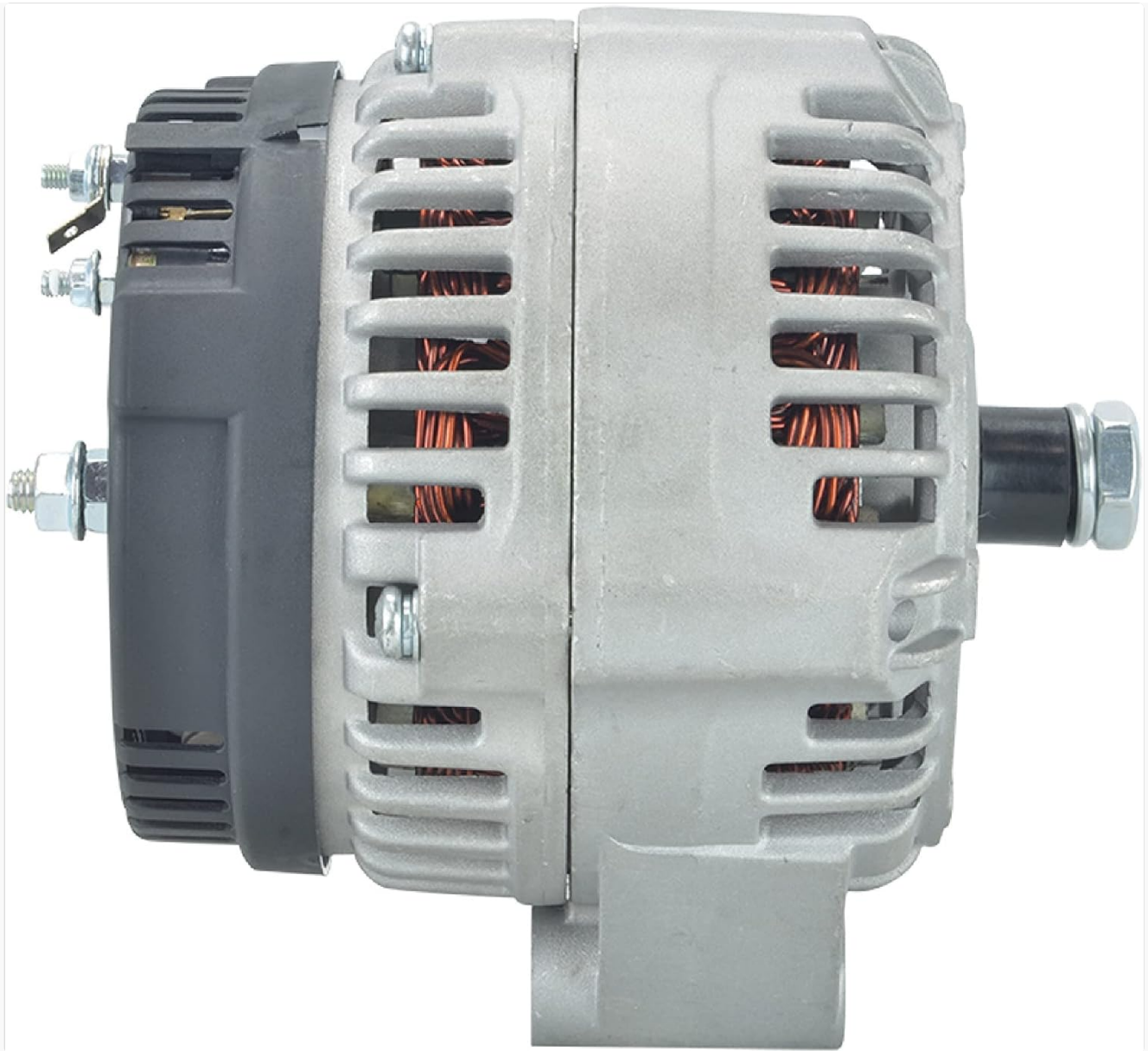


Image: Side view of the alternator, showing the cooling fins and overall profile.

COMPATIBILITY

This alternator is compatible with a range of vehicles and equipment. Please verify your specific model against the list below:

- **AGCO:** RT110A, RT110A 4WD, RT110A 4WD CVT (2007-2011), RT120A, RT120A 4WD, RT120A 4WD CVT, RT140A, RT140A 4WD, RT140A 4WD CVT, RT155A, RT155A 4WD, RT155A 4WD CVT (2006-2011), RT165A (2007), RT165A 4WD (2007-2010), RT165A 4WD CVT (2011), RT180A 4WD, RT180A 4WD CVT (2008-2010)
- **AGCO Challenger:** MT525B, MT535B, MT545B, MT575B (2008-2011), MT555B, MT565B (2009-2011)
- **TUG:** GT-110 All

Always cross-reference the OEM part numbers and specifications to ensure proper fitment before installation.

INSTALLATION AND SETUP

Installation of an alternator requires mechanical knowledge and appropriate tools. If you are not confident in your ability to perform this installation, it is recommended to seek professional assistance.

1. **Safety First:** Disconnect the vehicle's battery (negative terminal first) to prevent electrical shorts and injury.
2. **Locate the Alternator:** Identify the existing alternator in your vehicle.
3. **Remove Belts:** Loosen the tensioner and remove the serpentine belt or V-belt that drives the alternator.
4. **Disconnect Wiring:** Carefully disconnect all electrical connections from the alternator (B+ terminal, D+ terminal, W-terminal, etc.). Note their positions for reinstallation.
5. **Remove Mounting Bolts:** Unbolt the alternator from its mounting brackets. It may be heavy, so support it during removal.
6. **Install New Alternator:** Position the new DB Electrical Alternator 400-29057 into the mounting brackets. Secure it with the mounting bolts.
7. **Reconnect Wiring:** Reattach all electrical connections securely. Ensure correct polarity for the B+ terminal.
8. **Reinstall Belts:** Route the belt(s) correctly and tension them according to vehicle manufacturer specifications.
9. **Reconnect Battery:** Reconnect the vehicle's battery (positive terminal first, then negative).
10. **Test System:** Start the engine and check the charging system. Verify that the battery light is off and the voltage gauge (if present) shows proper charging.



Image: Rear view of the alternator, highlighting the electrical terminals (B+, D+, W) for connection.

The alternator is a key component of your vehicle's charging system. Its primary function is to convert mechanical energy from the engine into electrical energy to power the vehicle's electrical systems and recharge the battery.

- **Power Generation:** As the engine runs, it spins the alternator's pulley via a belt. This rotation drives a rotor inside the alternator, which generates a magnetic field.
- **Voltage Regulation:** The internal regulator (IR) maintains a consistent output voltage (typically around 13.5-14.5 volts) regardless of engine speed or electrical load, protecting the battery and other electrical components.
- **Battery Charging:** The generated electricity recharges the vehicle's 12V battery, ensuring it has sufficient power for starting the engine and operating accessories when the engine is off.
- **System Power:** The alternator also supplies power directly to the vehicle's electrical systems (lights, radio, ignition, etc.) while the engine is running, reducing the load on the battery.

MAINTENANCE

Proper maintenance can extend the life of your alternator and ensure optimal performance of your vehicle's electrical system.

- **Belt Inspection:** Regularly check the serpentine or V-belt for cracks, fraying, or excessive wear. Ensure it is properly tensioned. A loose belt can cause insufficient charging.
- **Wiring Connections:** Periodically inspect all electrical connections to the alternator for corrosion or looseness. Clean and tighten as necessary.
- **Battery Health:** A weak or failing battery can put undue strain on the alternator. Ensure your battery is in good condition and holds a charge.
- **Avoid Overloading:** Minimize the use of high-draw electrical accessories when the engine is off or at very low RPMs to prevent excessive discharge of the battery and strain on the alternator upon restart.
- **Cleanliness:** Keep the alternator free from excessive dirt, oil, and debris, which can impede cooling and affect performance.

TROUBLESHOOTING

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

Symptom	Possible Cause	Solution
Battery Warning Light On	Failing alternator, loose/worn belt, faulty wiring, dead battery.	Check belt tension, inspect wiring, test battery and alternator output. Replace faulty components.
Dim Lights / Electrical Malfunctions	Insufficient charging, weak battery, high electrical load.	Test charging voltage. Check battery. Reduce electrical load if excessive.
Grinding or Whining Noise	Worn bearings in alternator, loose pulley, worn belt.	Inspect alternator pulley and belt. If noise persists from alternator, replacement may be necessary.
Battery Drains Quickly	Alternator not charging, parasitic drain, old battery.	Test alternator output. Check for parasitic drains. Test and replace battery if needed.



Image: Top view of the alternator, showing the mounting points and overall structure.

WARRANTY AND SUPPORT

DB Electrical stands behind the quality of its products.

This alternator comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship. If the product does not function flawlessly once installed in your vehicle within this period, DB Electrical will replace it.

For warranty claims, technical assistance, or any other support inquiries, please contact DB Electrical customer service. Provide your purchase details and the model number (400-29057) for efficient service.

Contact information can typically be found on the manufacturer's official website or through your point of purchase.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question