



Manuals.plus /

- › **DB Electrical** /
- › DB Electrical SDR6058 Starter Solenoid Instruction Manual

DB Electrical SDR6058

DB Electrical SDR6058 Starter Solenoid Instruction Manual

Model: SDR6058 | Brand: DB Electrical

1. INTRODUCTION

The DB Electrical SDR6058 Starter Solenoid is a critical component in your vehicle's starting system. It acts as an electromagnetic switch that transmits a large electrical current from the battery to the starter motor when the ignition key is turned. This manual provides essential information for the safe and correct installation, operation, and maintenance of your new starter solenoid.



Image 1.1: The DB Electrical SDR6058 Starter Solenoid, a key component for vehicle ignition systems.

2. SAFETY INFORMATION

Always observe the following safety precautions when working on your vehicle's electrical system:

- **Disconnect the Battery:** Before beginning any work, always disconnect the negative (-) battery cable first, followed by the positive (+) battery cable, to prevent electrical shock or short circuits.
- **Wear Protective Gear:** Use safety glasses and gloves to protect against sparks, battery acid, and sharp edges.
- **Consult Vehicle Manual:** Refer to your vehicle's specific service manual for detailed instructions and wiring diagrams relevant to your make and model.
- **Professional Installation:** If you are unsure about any step, seek assistance from a qualified automotive technician.
- **Avoid Contact:** Do not touch hot engine components or live electrical terminals.

3. PACKAGE CONTENTS

Your DB Electrical SDR6058 Starter Solenoid package should include the following items:

- 1 x DB Electrical SDR6058 Starter Solenoid

- Mounting hardware (bolts, nuts, washers, copper terminal as pictured)



Image 3.1: The starter solenoid along with its included mounting hardware for installation.

4. SPECIFICATIONS

Unit Type	Starter Solenoid
Voltage	12 Volts
Amperage	10 Amps
Wattage	1.2 KW
Material	Metal
Item Dimensions (L x W x H)	4 x 4 x 6 inches
Model Number	SDR6058 (245-12110)
Compatible With	Chevrolet, Buick, GMC, Pontiac, Oldsmobile, Cadillac, Jeep, AMC (1973-1990) 10MT 20MT Long

5. SETUP AND INSTALLATION

The following steps outline a general procedure for replacing a starter solenoid. Always consult your vehicle's specific service manual for precise instructions and torque specifications.

1. **Preparation:** Gather necessary tools (wrenches, wire brush, battery terminal cleaner). Ensure the vehicle is on a level surface and the parking brake is engaged.
2. **Disconnect Battery:** Disconnect the negative (-) battery cable first, then the positive (+) battery cable. Secure cables away from battery terminals.
3. **Locate Solenoid:** The starter solenoid is typically mounted on the starter motor itself or on the inner fender well.
4. **Disconnect Wiring:** Carefully label and disconnect all electrical wires from the old solenoid. Note the position of each wire (BAT, MTR, S, R).
5. **Remove Old Solenoid:** Unbolt and remove the old solenoid from its mounting location.
6. **Install New Solenoid:** Mount the new DB Electrical SDR6058 solenoid using the provided hardware. Ensure it is securely fastened.
7. **Connect Wiring:** Reconnect the electrical wires to the corresponding terminals on the new solenoid. Refer to the terminal diagram below for correct connections. Ensure all connections are clean and tight.

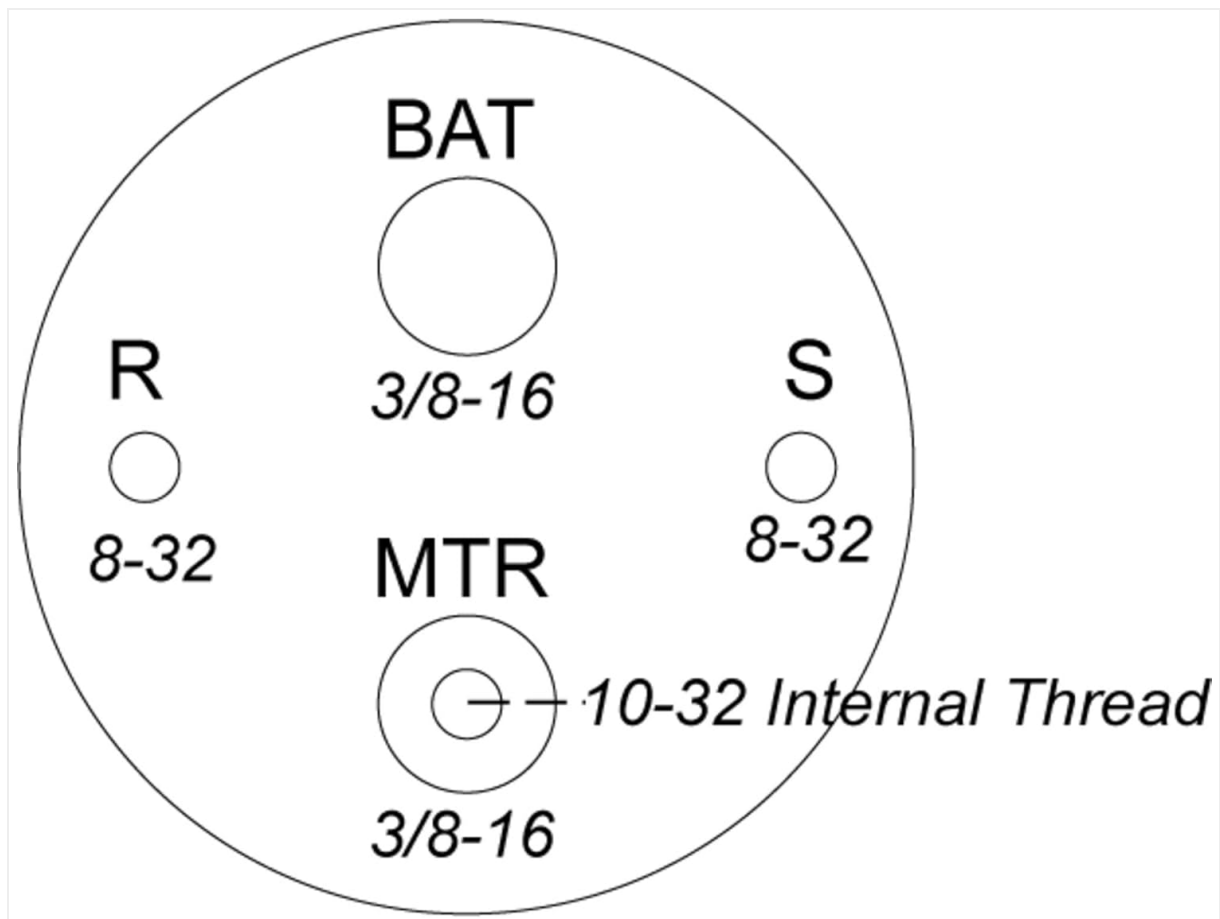


Image 5.1: Terminal diagram for the starter solenoid, showing BAT (Battery), MTR (Motor), S (Switch/Start), and R (Resistor/Ignition Bypass) connections with thread sizes.

8. **Reconnect Battery:** Reconnect the positive (+) battery cable first, then the negative (-) battery cable.
9. **Test System:** Attempt to start the vehicle to confirm proper operation.

6. OPERATING INSTRUCTIONS

The starter solenoid operates automatically when you turn the ignition key to the 'START' position. It receives a

small current from the ignition switch, which energizes an electromagnet inside the solenoid. This electromagnet then pulls a plunger, closing a heavy-duty contact that allows a large current to flow directly from the battery to the starter motor, engaging the engine's flywheel and initiating the cranking process. Once the engine starts and the key is released, the solenoid disengages, cutting power to the starter motor.

7. MAINTENANCE

The DB Electrical SDR6058 Starter Solenoid is designed for durability and requires minimal maintenance. However, periodic inspection can help ensure its longevity and reliable performance:

- **Inspect Connections:** Regularly check all electrical connections to the solenoid for tightness and corrosion. Loose or corroded connections can impede current flow and cause starting issues.
- **Clean Terminals:** If corrosion is present, disconnect the battery and carefully clean the terminals and wire ends with a wire brush and battery terminal cleaner.
- **Visual Inspection:** Look for any signs of physical damage, such as cracked housing or burnt terminals. Replace the solenoid if significant damage is observed.

8. TROUBLESHOOTING

If you experience issues with your vehicle's starting system, the following table may help diagnose problems related to the starter solenoid:

Symptom	Possible Cause	Solution
Engine does not crank, only a single click is heard.	Low battery charge, loose or corroded battery/solenoid connections, faulty starter solenoid, faulty starter motor.	Check battery voltage and charge if necessary. Clean and tighten all battery and solenoid connections. Test the solenoid for proper operation (refer to a service manual). If solenoid is good, inspect starter motor.
Engine cranks slowly or weakly.	Low battery charge, loose or corroded battery/solenoid connections.	Check battery voltage and charge if necessary. Clean and tighten all battery and solenoid connections.
Starter motor continues to run after key is released.	Faulty starter solenoid (contacts stuck).	Immediately disconnect battery. Replace the starter solenoid.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional automotive technician.

9. WARRANTY INFORMATION

The DB Electrical SDR6058 Starter Solenoid is backed by a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims or further details, please retain your proof of purchase and contact DB Electrical customer support.

10. SUPPORT

For technical assistance, product inquiries, or support regarding your DB Electrical SDR6058 Starter Solenoid, please visit the official DB Electrical website or refer to the contact information provided with your purchase. You may also find additional resources and FAQs on the product's Amazon listing page.

