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#### **DB Electrical SPR0009**

# DB Electrical 410-40028 Starter Instruction Manual

FOR JOHN DEERE 5055E, 5065E, 5310, 5310N, 5410, 5410N, 5105, 5205, 5210, 5220, 5320N, AND OTHER COMPATIBLE MODELS

#### 1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your DB Electrical 410-40028 Starter. This starter is designed as a replacement for various John Deere tractor models. Please read this manual thoroughly before attempting any installation or service to ensure safety and optimal performance.

### 2. SAFETY INFORMATION

**Warning:** Always disconnect the vehicle's battery before working on the electrical system to prevent electrical shock or damage. Wear appropriate personal protective equipment, including safety glasses and gloves. Ensure the vehicle is stable and secured to prevent accidental movement. If you are unsure about any procedure, consult a qualified technician.

**Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

### 3. PRODUCT OVERVIEW

The DB Electrical 410-40028 Starter (Model SPR0009) is a 12-volt, 2.5 KW starter with 10 teeth and a CW (Clockwise) rotation. It is a PLGR (Planetary Gear Reduction) type starter, engineered to meet OEM specifications for reliable performance in compatible John Deere applications.



Figure 3.1: Main view of the DB Electrical 410-40028 Starter, showing the solenoid and gear assembly.



Figure 3.2: Side view of the starter, highlighting the motor housing and mounting points.

# 4. Installation

**Pre-Installation Check:** Before installation, verify that this starter is the correct part for your specific John Deere model by cross-referencing the OEM numbers provided in the specifications section of this manual. Ensure the new starter matches the physical dimensions and electrical connections of the original unit.

- 1. **Disconnect Battery:** Disconnect the negative (-) battery cable first, followed by the positive (+) battery cable.
- Locate and Remove Old Starter: Identify the existing starter motor. Disconnect all electrical
  connections to the old starter. Remove the mounting bolts securing the old starter to the engine.
  Carefully extract the old starter.
- 3. **Install New Starter:** Position the new DB Electrical 410-40028 Starter in place. Secure it with the appropriate mounting bolts, tightening them to the manufacturer's specifications.
- 4. **Connect Electrical Wiring:** Reconnect the main battery cable and the solenoid activation wire to the new starter. Ensure all connections are clean, tight, and correctly oriented.
- 5. **Reconnect Battery:** Reconnect the positive (+) battery cable first, then the negative (-) battery cable.
- 6. Test Functionality: Attempt to start the engine to confirm proper operation of the new starter.

It is highly recommended to have installation performed by a certified mechanic to ensure correct procedure and safety.

### 5. OPERATION

The starter motor is an integral component of your vehicle's engine starting system. Its operation is initiated by turning the ignition key or pressing the start button. The starter engages the engine's flywheel, rotating the crankshaft to begin the combustion cycle. Once the engine starts, the starter disengages automatically.

### 6. MAINTENANCE

The DB Electrical 410-40028 Starter is designed for durability and requires minimal maintenance. However, regular inspection of related components can prolong its lifespan:

- **Battery Condition:** Ensure your vehicle's battery is always fully charged and in good condition. A weak battery can strain the starter.
- **Cable Connections:** Periodically inspect all battery cables and starter connections for corrosion, looseness, or damage. Clean and tighten as necessary.
- Physical Damage: Check the starter for any signs of physical damage or excessive wear.

There are no internal user-serviceable parts within the starter motor. Any internal issues should be addressed by a qualified professional.

# 7. TROUBLESHOOTING

- Starter Does Not Engage (No Click or Whirring Sound):
  - Check battery charge and terminals.
  - Verify all electrical connections to the starter are secure.
  - Inspect the ignition switch and starter relay for proper function.
- · Slow Cranking:
  - Indicates a low battery or corroded battery cables.

• Could also be excessive resistance in the starter circuit. Inspect all connections and battery condition.

# • Grinding Noise During Start:

- May indicate improper starter engagement with the engine's flywheel.
- Ensure the starter is correctly mounted and the gear teeth are not damaged.

# • Starter Engages but Engine Does Not Turn Over:

• Could indicate a mechanical issue with the engine or a faulty starter drive (bendix).

If these basic troubleshooting steps do not resolve the issue, it is recommended to seek professional assistance.

# 8. SPECIFICATIONS

Feature	Specification
Unit Type	Starter
Model Number	SPR0009
Voltage	12 Volts
Wattage	2.5 KW
Rotation	CW (Clockwise)
Teeth	10
Starter Type	PLGR (Planetary Gear Reduction)
Item Weight	11.5 pounds
Product Dimensions	10.3 x 7.3 x 3.4 inches
Manufacturer	DB Electrical
UPC	701485504013

# **Compatible OEM Numbers:**

• ARROWHEAD: 410-40028, MS430, V438012, IS1059

• BOSCH: 0-001-223-502

CARGO: 113478J & N: 410-40028

• JOHN DEERE: RE501347, RE501680, RE501693, RE502156, RE502196, RE60641, RE63010

• LESTER: 17086, 18526

• LETRIKA (ISKRA) AFTERMARKET: IS 1059

• MAHLE: MS430

REMY LIGHT DUTY: 69600VALEO: D7R14, 438012

# **Compatible John Deere Models:**

- 240 (1999-2004), 240 Series II
- 250 (1999-2004), 250 Series II
- 260 (1999-2004), 260 Series II
- 5055E, 5065E
- 5103, 5105
- 5203, 5205, 5210, 5220
- 5303, 5310, 5310N, 5320, 5320N
- 5410, 5410N
- 8875 (1994-1998)

### 9. WARRANTY AND SUPPORT

This DB Electrical product comes with a 1-year warranty from the date of purchase. This warranty covers manufacturing defects and ensures the product will function flawlessly when installed correctly in your vehicle. In the rare event of a product malfunction within the warranty period, DB Electrical will replace the unit

For warranty claims, technical assistance, or any inquiries regarding your DB Electrical 410-40028 Starter, please contact DB Electrical customer support through their official website or authorized retailers. Please have your purchase details and product model number (SPR0009) available when contacting support.

#### **Related Documents - SPR0009**



# John Deere LA135 Lawn Tractor Replacement Parts Guide

Comprehensive replacement parts guide for the John Deere LA135 lawn tractor with a 42-inch deck. Find part numbers for engine, fuel, air, electrical, and mower deck components, along with maintenance intervals.



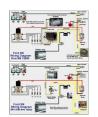
#### John Deere Engines Troubleshooting Guide

A comprehensive troubleshooting guide for John Deere engines, covering common issues such as starting problems, abnormal engine noise, overheating, and electrical system faults. Provides solutions and recommended actions for each symptom.



#### John Deere 310J Backhoe Loader Electrical Wiring Diagram

This document provides the electrical wiring diagram for the John Deere 310J Backhoe Loader, serial number 159759. It details various circuits, components, and their connections.



#### Ford Tractor Wiring Diagrams (Pictograms) by JMOR

Comprehensive wiring diagrams and electrical schematics for Ford 9N, 2N, 8N, and Jubilee/NAA tractor models. Includes original wiring configurations, serial number variations, and 12V conversion guides. Essential reference for tractor maintenance and repair.



### New Holland D180 Electrical System Manual

Comprehensive guide to the electrical system of the New Holland D180 dozer, covering safety rules, fuse and relay layouts, component descriptions, wiring diagrams, sensor information, instrument panel functions, and connector pinouts.



### Stäubli PV-AZM Stripping Pliers Operating Instructions and Manual

Comprehensive guide to operating and maintaining Stäubli PV-AZM series stripping pliers, including safety instructions, blade replacement, and stripping procedures.