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› [DB Electrical](#) /

› DB Electrical SND0471 Starter Manual for Cub Cadet Tractors 2140, 2145, 2146

DB Electrical SND0471

DB Electrical SND0471 Starter Instruction Manual

Model: SND0471

Brand: DB Electrical

1. PRODUCT OVERVIEW

The DB Electrical SND0471 Starter is a high-quality aftermarket replacement component designed to meet or exceed OEM specifications. This starter is engineered for reliable engine cranking in compatible Cub Cadet tractor models.



Figure 1: Side view of the DB Electrical SND0471 Starter.

Key Features:

- Unit Type: Starter
- Voltage: 12V
- Rotation: Counter-Clockwise (CCW)
- Teeth: 9
- KW: 0.6
- Starter Type: DD
- Built to meet OEM specifications for Cub Cadet.

2. COMPATIBILITY

This starter is compatible with the following Cub Cadet tractor models and engine configurations:

- **Cub Cadet 2140:** 1994-1995 models, typically with Onan 14HP E140H Engine.
- **Cub Cadet 2145:** 1994-1995 models, typically with Onan 14HP E140H Engine.
- **Cub Cadet 2146:** 2000-2001 models, typically with Linamar 14HP ZX390 Engine.

It replaces OEM part numbers including: ARROWHEAD SND0471, ARROWHEAD (OEM) ND228000-3271, CUB CADET ME-191-2107, DENSO 228000-3270, 228000-3271, J & N 410-52320, LESTER 18983, ONAN 191-2107.

3. SPECIFICATIONS

Specification	Detail
Unit Type	Starter
Voltage	12 Volts
Rotation	Counter-Clockwise (CCW)
Teeth	9
Kilowatts (KW)	0.6
Starter Type	DD
Material	Metal
Item Dimensions (L x W x H)	8.8 x 5.6 x 5.8 inches
Model Number	410-52320
UPC	701485503894

4. INSTALLATION GUIDELINES

Safety First: Before beginning any installation, ensure the vehicle's battery is disconnected to prevent electrical shock or damage to the electrical system. Always wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.

1. **Preparation:** Locate the existing starter motor on your Cub Cadet tractor. You may need to remove other components to gain access.
2. **Disconnection:** Carefully disconnect the electrical wiring from the old starter. Note the position of each wire for correct reinstallation.
3. **Removal:** Unbolt the old starter motor from the engine block. Be prepared for the weight of the starter.
4. **Inspection:** Inspect the mounting surface and flywheel for any damage or wear. Address any issues before installing the new starter.
5. **Installation of New Starter:** Position the new DB Electrical SND0471 starter and secure it with the appropriate bolts, tightening them to the manufacturer's recommended torque specifications.
6. **Wiring:** Reconnect the electrical wiring to the new starter, ensuring all connections are clean and secure.
7. **Final Checks:** Reconnect the battery. Before attempting to start the engine, double-check all connections and ensure no tools or debris are left in the engine compartment.

If you are unsure about any step, it is recommended to consult a professional mechanic or a detailed service manual for your specific tractor model.

5. OPERATION

The starter motor is responsible for cranking the engine to initiate combustion. When the ignition key is turned to the 'start' position, electrical current flows to the starter motor. The starter motor's pinion gear engages with the engine's flywheel, rotating the crankshaft until the engine starts. Once the engine begins to run, the starter motor disengages automatically. Ensure your battery is fully charged and in good condition for optimal starter performance. A weak battery can lead to slow cranking or failure to start.

6. MAINTENANCE

Proper maintenance can extend the life of your starter motor and ensure reliable operation.

- **Battery Health:** Regularly check your tractor's battery for proper charge and condition. A healthy battery is crucial for the starter.
- **Cable Connections:** Periodically inspect the battery cables and starter motor connections for corrosion, looseness, or damage. Clean any corrosion and ensure connections are tight.
- **Engine Condition:** Ensure your engine is well-maintained and easy to start. An engine that is difficult to turn over can put excessive strain on the starter.
- **Avoid Prolonged Cranking:** Do not crank the engine for more than 10-15 seconds at a time. Allow the starter to cool for a minute or two between attempts to prevent overheating.

7. TROUBLESHOOTING

If you experience issues with your starter, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Starter clicks but engine does not crank	Weak battery, loose battery cables, faulty solenoid	Charge/replace battery, clean and tighten battery terminals, check solenoid connections.
Starter cranks slowly	Low battery charge, corroded battery cables, high engine resistance	Charge battery, clean cable connections, check engine for mechanical issues.
Starter does not engage (no sound)	Dead battery, faulty ignition switch, open circuit in starter wiring, faulty starter motor	Check battery, test ignition switch, inspect wiring for breaks, test starter motor.
Grinding noise during cranking	Damaged starter pinion gear or flywheel teeth, improper starter alignment	Inspect gears for damage, verify starter mounting.

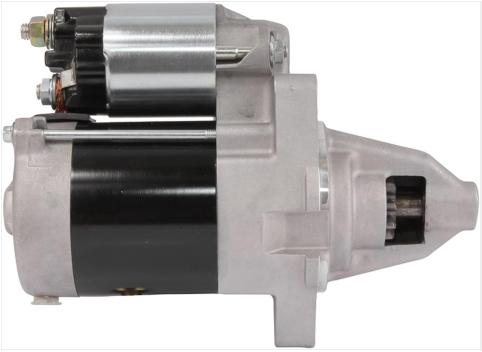
If troubleshooting steps do not resolve the issue, further diagnosis by a qualified technician may be required.

8. WARRANTY AND SUPPORT

This DB Electrical starter comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. If the product fails within one year of your order, it will be replaced. For warranty claims or technical support, please contact DB Electrical customer service.

9. PRODUCT VISUALS AND VIDEOS

Product Images:



Side view of the starter, highlighting mounting points and electrical connections.



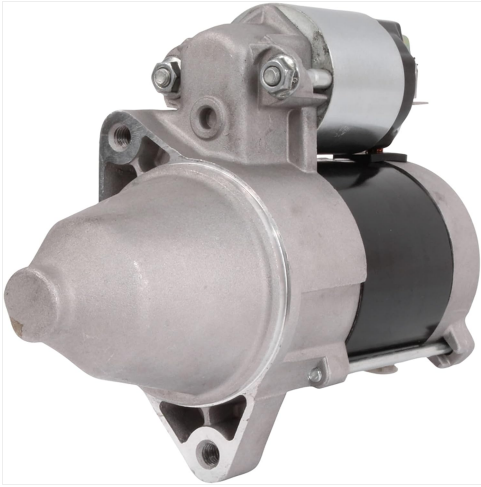
Angled view showing the solenoid and rear casing of the starter.



Rear view of the starter, detailing the electrical terminals.



Angled view of the starter, showing the pinion gear housing.



Front view of the starter, focusing on the pinion gear.



Top view of the starter, showing the overall compact design.

Official Product Videos:

Video: Starter Motor & Bendix Video 5. This video provides a general overview of starter motors and bendix components, relevant to the DB Electrical SND0471 Starter.

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

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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