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› UpStart Components Replacement Spark Plug for Yard Machine Snowblower 3BAD729 (Tecumseh 5.5 hp 4-Cycle) Instruction Manual

UpStart Components SP-RJ19LM-DL1835

UpStart Components Replacement Spark Plug Instruction Manual

Model: SP-RJ19LM-DL1835

1. PRODUCT OVERVIEW

The UpStart Components Replacement Spark Plug is designed to provide reliable ignition for compatible small engines. This spark plug ensures efficient combustion, contributing to optimal engine performance, improved fuel efficiency, and stable operation. It is constructed with durable materials to resist fouling and corrosion, offering superior conductivity for consistent voltage.





Figure 1: Front view of the UpStart Components Replacement Spark Plug.

Key features include:

- High durability for sustained performance.
- Premium quality materials to resist fouling and corrosion.
- Superior conductivity for consistent voltage and extended lifespan.
- Stable operating temperature for effective heat control under various loads.

2. SAFETY INFORMATION

Always prioritize safety when working with engine components. Failure to follow these safety guidelines may result in injury or damage to equipment.

- **Engine Off and Cool:** Ensure the engine is completely turned off and has cooled down before attempting any work on the spark plug. Hot engine components can cause severe burns.
- **Disconnect Ignition:** Disconnect the spark plug wire or battery to prevent accidental engine start-up.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as gloves and eye protection.
- **Ventilation:** Work in a well-ventilated area to avoid inhaling fumes.
- **Proper Tools:** Use the correct tools for spark plug removal and installation to prevent damage to the

spark plug or engine.

3. COMPATIBILITY

This replacement spark plug is compatible with the following:

- Yard Machine Snowblower model 3BAD729 with Tecumseh 5.5 hp 4-Cycle engine.
- Directly compatible with Champion RJ19LM spark plugs.
- Directly compatible with NGK BR2LM spark plugs.

4. INSTALLATION

Follow these steps to replace the spark plug in your compatible engine:

1. **Prepare the Engine:** Ensure the engine is off and cool. Disconnect the spark plug wire. Clean the area around the spark plug to prevent debris from entering the combustion chamber.
2. **Remove Old Spark Plug:** Use a spark plug wrench to carefully loosen and remove the old spark plug. Turn counter-clockwise.
3. **Inspect New Spark Plug:** Before installation, visually inspect the new UpStart Components spark plug for any damage. While typically pre-gapped, you may verify the gap with a feeler gauge if your engine manual specifies a precise gap.
4. **Install New Spark Plug:** Thread the new spark plug into the cylinder head by hand to avoid cross-threading. Once finger-tight, use the spark plug wrench to tighten it. Refer to your engine's service manual for specific torque specifications. Overtightening can damage the cylinder head.
5. **Reconnect Spark Plug Wire:** Firmly reattach the spark plug wire to the new spark plug.



Figure 2: Close-up view of the spark plug's electrode and threads, important for proper installation.

5. OPERATION

Once installed, the spark plug functions automatically as part of the engine's ignition system. It generates an electrical spark that ignites the air-fuel mixture in the combustion chamber, driving the engine's operation. No user intervention is required during normal operation.

6. MAINTENANCE

Regular inspection and timely replacement of your spark plug are crucial for maintaining engine health and performance.

- **Inspection:** Periodically inspect the spark plug for signs of wear, fouling, or damage. A healthy spark plug typically has a light tan or grayish-white deposit on the insulator tip. Black, oily, or heavily carbonized deposits indicate potential engine issues.
- **Replacement Schedule:** Refer to your engine's owner's manual for the recommended spark plug replacement interval. Generally, spark plugs in small engines should be replaced annually or every 25-50 operating hours, whichever comes first.
- **Cleaning:** While some light cleaning of deposits may be possible, it is generally recommended to replace a fouled or worn spark plug rather than attempting to clean it, as performance may not be fully restored.



Figure 3: Angled view of the spark plug, showing the terminal and insulator, which should be inspected for cracks or damage.

7. TROUBLESHOOTING

A faulty or worn spark plug can cause several engine performance issues. Replacing the spark plug with a new UpStart Components unit can resolve these common problems:

- **Difficulty Starting:** If the engine is hard to start, a weak or inconsistent spark from a worn plug could be the cause.
- **Engine Misfires:** Irregular combustion, often felt as a stumble or hesitation, can be due to a failing spark plug.

- **Unstable Idle:** An engine that idles roughly or inconsistently may benefit from a new spark plug providing a stronger, more reliable spark.
- **Reduced Fuel Efficiency:** Inefficient combustion caused by a worn spark plug can lead to increased fuel consumption.
- **Loss of Power:** A weak spark can result in incomplete combustion, leading to a noticeable reduction in engine power.

If these issues persist after replacing the spark plug, consult your engine's service manual or a qualified technician for further diagnosis.

8. SPECIFICATIONS

Specification	Detail
Brand	UpStart Components
Model Number	SP-RJ19LM-DL1835
Product Dimensions	1 x 1 x 3.5 inches
Core Material	Copper
Thread Size	18mm
Vehicle Service Type	Snowblower, Lawn Mower

9. WARRANTY AND SUPPORT

This UpStart Components product is covered by warranties offered solely by UpStart Components. It is not affiliated with any OEM brands and is not covered under any warranties offered by original manufacturers.

For specific warranty details or technical support, please refer to the contact information provided with your purchase or visit the official UpStart Components website.



Figure 4: Packaging for the UpStart Components Replacement Spark Plug.