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MTD Genuine Parts CMXGZAM250021

MTD Genuine Parts Craftsman Spark Plug CMXGZAM250021 User Manual

Model: CMXGZAM250021 | Part Numbers: 751-22435, 759-3336, RC12YC, BS-792015

INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and troubleshooting of your MTD Genuine Parts Craftsman Spark Plug, model CMXGZAM250021. This spark plug is designed as an original equipment replacement part for various outdoor power equipment engines, including specific Kohler 7000 Series and Briggs & Stratton engines.

Regular replacement of spark plugs is crucial for maintaining engine efficiency, ensuring easier starting, and extending the overall life of your equipment. Worn or carbon-fouled spark plugs can lead to decreased fuel efficiency and reduced engine power.

PRODUCT OVERVIEW AND COMPATIBILITY

The Craftsman Spark Plug CMXGZAM250021 is a genuine replacement part engineered to meet the specifications of your outdoor power equipment. It is compatible with a range of riding mowers and zero-turn mowers.



Image 1: Craftsman Spark Plug CMXGZAM250021 in its retail packaging, showing compatibility information on the card.

Engine Compatibility:

- **Kohler 7000 Series Engines:** Compatible with riding mowers and zero-turn mowers including models T2400, T2200, T3200, T220K, T240, T310, Z510, Z530, Z550, Z560, Z5200, Z5400, Z5600, Z5800, Z5450, Z7600, Z5650, Z7600.
- **Briggs & Stratton Engines:** Compatible with riding mowers including models T100, T110, T140.

For optimal performance and engine longevity, always use genuine replacement parts specified for your equipment.

INSTALLATION INSTRUCTIONS

Before beginning any maintenance, ensure the engine is cool and the ignition system is disengaged to prevent accidental starting. Refer to your equipment's specific owner's manual for detailed safety precautions and procedures.



Image 2: A detailed view of the Craftsman Spark Plug CMXGZAM250021, highlighting the electrode and threads.

1. **Safety First:** Disconnect the spark plug wire(s) from the existing spark plug(s). For multi-cylinder engines, replace one plug at a time to avoid mixing up spark plug wires.
2. **Clean Area:** Use a brush or compressed air to clean around the base of the old spark plug. This prevents dirt and debris from falling into the combustion chamber when the plug is removed.
3. **Remove Old Spark Plug:** Use a spark plug wrench to carefully loosen and remove the old spark plug. Turn counter-clockwise.
4. **Inspect New Spark Plug:** While Craftsman spark plugs are typically pre-gapped for your engine, it is good practice to visually inspect the gap between the electrodes. Refer to your engine's manual for the correct gap specification if adjustment is needed.
5. **Install New Spark Plug:** Thread the new spark plug into the cylinder head by hand to prevent cross-threading. Once finger-tight, use a spark plug wrench to tighten it. Do not overtighten; follow the torque specifications in your engine's manual or tighten an additional 1/4 to 1/2 turn after the gasket makes contact.
6. **Reconnect Spark Plug Wire:** Firmly push the spark plug wire boot back onto the new spark plug until it clicks into place. Ensure a secure connection.



Image 3: An angled view of the Craftsman Spark Plug CMXGZAM250021, showing the ceramic insulator and metal casing.

OPERATING PRINCIPLES

A spark plug is a critical component in an internal combustion engine, responsible for igniting the air-fuel mixture in the combustion chamber. It creates an electrical spark across a small gap between its electrodes, initiating the combustion process that powers the engine.

The performance of the spark plug directly impacts engine starting, power output, and fuel efficiency. A properly functioning spark plug ensures a strong, consistent spark for complete combustion.

MAINTENANCE

Regular inspection and timely replacement of spark plugs are essential for optimal engine performance and longevity.

- **Inspection Frequency:** Consult your equipment's owner's manual for recommended inspection intervals. Generally, spark plugs should be inspected annually or every 25-50 operating hours, depending on usage.
- **Signs of Wear:** During inspection, look for signs of wear such as:
 - Excessive carbon buildup on the electrodes.
 - Eroded or rounded electrodes.
 - Cracked or chipped ceramic insulator.
 - Oil fouling.
- **Replacement:** Replace spark plugs according to your equipment's maintenance schedule or when signs of wear are evident. A new spark plug helps restore engine performance and fuel efficiency.

Consider replacing other related parts for comprehensive maintenance:

- **Oil and Oil Filter:** For Kohler 7000 Series Engines (EZT740, EST750, KT715, KT725, KT730, KT735, KT740, KT745), consider CRAFTSMAN CMXGZAM201009 and 2 quarts of CMXGZAM000044.

- **Air Filter:** For Kohler 7000 Series Engines (EZT740, EST750, KT715, KT725, KT730, KT735, KT740, KT745), consider CRAFTSMAN CMXGZAM200077.
- **Fuel Shut-Off Valve:** CRAFTSMAN CMXGZAM240009, which includes fuel line, shut-off valve, and a new fuel filter.

TROUBLESHOOTING COMMON ISSUES

If your engine is experiencing issues, a faulty spark plug could be a contributing factor. Here are some common problems and how they relate to spark plugs:

- **Hard Starting:** A weak or inconsistent spark from a worn spark plug can make the engine difficult to start.
- **Engine Misfires or Runs Rough:** If a spark plug is fouled or damaged, it may not ignite the fuel mixture properly, leading to misfires and rough engine operation.
- **Reduced Power:** Inefficient combustion due to a poor spark can result in a noticeable loss of engine power.
- **Decreased Fuel Efficiency:** An old or fouled spark plug can lead to incomplete combustion, causing the engine to consume more fuel than necessary.

If you encounter these issues, inspect your spark plug(s) as part of your diagnostic process. If the spark plug shows signs of wear or fouling, replacement with a new Craftsman CMXGZAM250021 spark plug is recommended.

SPECIFICATIONS

Feature	Detail
Brand	MTD Genuine Parts
Model Number	CMXGZAM250021
Part Numbers	751-22435, 759-3336, RC12YC, BS-792015
Core Material	Copper
Top Material Type	Nickel
Vehicle Service Type	Lawn Mower
Product Dimensions	6.75 x 2.75 x 1 inches
Item Weight	1.92 ounces
Manufacturer	SBD Craftsman
UPC	037049970964

WARRANTY AND SUPPORT

For specific warranty information regarding your MTD Genuine Parts Craftsman Spark Plug

CMXGZAM250021, please refer to the documentation provided with your original equipment or contact MTD Genuine Parts customer support directly. Warranty terms typically cover manufacturing defects.

For technical assistance or further inquiries, please visit the official MTD Genuine Parts website or consult your equipment's owner's manual for contact details.

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