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NGK RA-11-020

NGK BPR6HS Spark Plug User Manual

Model: RA-11-020

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your NGK BPR6HS Spark Plug. Designed for reliable ignition in various small engines, particularly lawn mowers and garden tractors, this spark plug is manufactured with a copper core for optimal performance. Please read this manual thoroughly before installation to ensure safe and effective use.

2. Product Overview



The NGK BPR6HS spark plug is a critical component for internal combustion engines, responsible for igniting the air-fuel mixture. This specific model features a copper core electrode, known for its excellent heat dissipation and conductivity, contributing to consistent ignition and engine performance. It comes in a distinctive yellow NGK branded box.

- **Brand:** NGK
- **Model:** BPR6HS (RA-11-020)
- **Core Material:** Copper
- **Thread Size:** 14mm x 1.25mm
- **Typical Application:** Lawn Mowers, Garden Tractors

- **Dimensions:** Approximately 1 x 1 x 1 inches
- **Weight:** Approximately 1.92 ounces

3. Installation and Setup

Proper installation is crucial for the spark plug's performance and longevity. Always refer to your engine's service manual for specific instructions and torque specifications.

3.1. Tools Required

- Spark plug wrench (correct size for 14mm plug)
- Feeler gauge (for gap adjustment, if necessary)
- Torque wrench (recommended for precise installation)
- Anti-seize compound (optional, for thread protection)

3.2. Installation Steps

1. **Safety First:** Ensure the engine is off, cool, and the ignition system is disconnected to prevent accidental starting.
2. **Remove Old Plug:** Disconnect the spark plug wire. Use a spark plug wrench to carefully unscrew the old spark plug counter-clockwise.
3. **Inspect New Plug:** Before installation, visually inspect the new NGK BPR6HS spark plug for any damage.
4. **Check Gap:** Verify the spark plug gap according to your engine manufacturer's specifications using a feeler gauge. Adjust if necessary by carefully bending the ground electrode.
5. **Install New Plug:** Thread the new spark plug into the cylinder head by hand to avoid cross-threading. Once finger-tight, use a torque wrench to tighten it to the manufacturer's specified torque. If a torque wrench is not available, tighten approximately 1/2 to 2/3 turn after the gasket makes contact for new plugs, or 1/12 turn for used plugs.
6. **Reconnect:** Reconnect the spark plug wire firmly.

4. Operating Considerations

Once installed, the NGK BPR6HS spark plug operates as part of your engine's ignition system. No specific user operation is required beyond ensuring proper installation and regular maintenance.

- Ensure the spark plug wire is securely connected to prevent misfires.
- Regularly check for any signs of loose connections or damage to the spark plug boot.

5. Maintenance

Regular inspection and timely replacement of your spark plug are essential for optimal engine performance and fuel efficiency.

5.1. Inspection Schedule

Consult your engine's service manual for recommended inspection and replacement intervals. Generally, spark plugs should be inspected every 50-100 hours of operation or annually, and replaced as needed.

5.2. What to Look For During Inspection

- **Electrode Wear:** Check for excessive wear on the center and ground electrodes. Worn electrodes can lead to misfires.

- **Fouling:** Look for deposits (carbon, oil, or fuel) on the insulator tip and electrodes. Different types of fouling indicate potential engine issues.
- **Cracks or Damage:** Inspect the ceramic insulator for cracks or chips, which can cause misfires or engine damage.
- **Gap:** Re-check the spark plug gap and adjust if it has widened due to wear.

5.3. Cleaning

While some light deposits can be carefully removed with a wire brush, heavily fouled or damaged spark plugs should be replaced rather than cleaned, as cleaning may not restore optimal performance.

6. Troubleshooting Common Issues

Many engine performance issues can be related to the spark plug. Here are some common symptoms and potential spark plug related causes:

Symptom	Possible Spark Plug Related Cause	Action
Engine Misfires or Runs Rough	Fouled, worn, or incorrectly gapped spark plug; cracked insulator.	Inspect and replace spark plug. Verify gap.
Difficulty Starting Engine	Worn or fouled spark plug; incorrect gap.	Inspect and replace spark plug. Verify gap.
Reduced Fuel Economy	Worn or fouled spark plug leading to inefficient combustion.	Replace spark plug.
Engine Lacks Power	Ineffective ignition due to worn or fouled spark plug.	Replace spark plug.

If troubleshooting steps do not resolve the issue, consult a qualified mechanic or refer to your engine's specific service manual.

7. Specifications

Attribute	Value
Brand	NGK
Model Number	RA-11-020 (BPR6HS)
Core Material	Copper
Thread Size	14mm x 1.25mm
Vehicle Service Type	Lawn Mower, Garden Tractor
Product Dimensions	1 x 1 x 1 inches
Item Weight	1.92 ounces
UPC	701748108422
Manufacturer	Zündkerze NGK BPR6HS

8. Warranty Information

Specific warranty details for NGK spark plugs are typically provided by the point of purchase or directly by NGK. As a consumable engine component, spark plugs are generally covered against manufacturing defects. For detailed warranty terms and conditions, please refer to the official NGK website or contact your retailer.

9. Customer Support

For technical assistance, product inquiries, or support regarding your NGK BPR6HS spark plug, please visit the official NGK website or contact their customer service department. When contacting support, please have your product model number (BPR6HS or RA-11-020) and any relevant engine information ready.

NGK Official Website: www.ngksparkplugs.com

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