

NGK BR6HS BLYB

NGK BR6HS BLYB Marine Spark Plug Instruction Manual

Model: BR6HS BLYB

INTRODUCTION

The NGK BR6HS BLYB Spark Plug is specifically engineered for reliable performance in marine applications. This spark plug features corrugated ribs designed to prevent flashover, effectively eliminating combustion gas leakage. Its advanced design provides superior spark and heat transfer, ensuring high dielectric strength, improved anti-fouling properties, and enhanced corrosion resistance for durable and consistent operation in demanding marine environments.

SAFETY INFORMATION

- Always disconnect the battery before performing any work on the engine to prevent accidental starting or electrical shock.
- Allow the engine to cool completely before handling spark plugs to avoid burns.
- Wear appropriate personal protective equipment, including safety glasses and gloves, during installation and maintenance.
- Avoid cross-threading spark plugs during installation. Always hand-thread first.
- Keep spark plugs and related tools out of reach of children.
- Refer to your engine's specific service manual for additional safety precautions and detailed instructions.

SETUP AND INSTALLATION

Tools Required:

- Spark plug wrench (correct size for 14mm thread)
- Spark plug gap gauge (if gap adjustment is needed)
- Anti-seize compound (optional, but recommended for marine use)

Installation Procedure:

1. **Prepare the Engine:** Ensure the engine is cool and the battery is disconnected. Locate the existing

spark plugs.

2. **Remove Spark Plug Wires:** Carefully grasp the spark plug boot (not the wire) and twist slightly while pulling to remove it from the existing spark plug. Note the cylinder location for each wire.
3. **Remove Old Spark Plugs:** Use a spark plug wrench to loosen and remove the old spark plug by turning it counter-clockwise.
4. **Inspect New Spark Plug:** Examine the new NGK BR6HS BLYB spark plug for any visible damage. Verify the correct gap setting using a gap gauge, referring to your engine manufacturer's specifications. While NGK spark plugs are typically pre-gapped, verification is always recommended.
5. **Apply Anti-Seize (Optional):** Apply a small amount of anti-seize compound to the threads of the new spark plug. This is particularly beneficial in marine environments to prevent seizing and facilitate future removal.
6. **Install New Spark Plug:** Hand-thread the new spark plug into the cylinder head to prevent cross-threading. Once finger-tight, use the spark plug wrench to tighten it to the engine manufacturer's specified torque. *Over-tightening can damage the cylinder head or the spark plug.*
7. **Reconnect Spark Plug Wire:** Firmly push the spark plug boot back onto the new spark plug until it clicks into place, ensuring a secure connection.
8. **Repeat:** Follow these steps for all remaining spark plugs.



Image: NGK BR6HS BLYB Spark Plug. This image displays the NGK BR6HS BLYB Spark Plug, highlighting its ceramic

insulator, metal shell, and electrode tip. It is shown in its packaging, ready for use.

OPERATING

Properly installed NGK BR6HS BLYB spark plugs are crucial for efficient engine operation. Ensure your engine's entire ignition system is in good working order for optimal performance. A correctly gapped and torqued spark plug will provide consistent ignition, leading to smoother engine running, reliable starting, and improved fuel efficiency. After installation, start the engine and listen for any unusual noises or signs of misfiring. If issues persist, refer to the troubleshooting section.

MAINTENANCE

Inspection:

Regularly inspect your spark plugs for signs of wear, fouling, or damage. A healthy spark plug will typically have a light tan or grayish-white deposit on the insulator tip. Black, oily, or carbon deposits indicate potential engine issues such as rich fuel mixture, oil burning, or excessive carbon buildup, which should be addressed by a qualified technician.

Replacement:

Spark plugs are wear items and should be replaced according to your engine manufacturer's recommended service intervals. For marine applications, more frequent inspection and replacement may be necessary due to the harsh operating conditions and potential for increased corrosion or fouling. The NGK BR6HS BLYB is designed for durability, but timely replacement ensures continued optimal engine performance and prevents potential damage to other engine components.

TROUBLESHOOTING

- **Engine Misfires or Rough Idling:** Check spark plug wires for secure connections. Inspect spark plugs for fouling, incorrect gap, or excessive wear. Replace any damaged or excessively worn spark plugs.
- **Difficulty Starting:** Ensure spark plugs are clean and properly gapped. Verify that the ignition system is delivering adequate spark to each plug. Check for proper fuel delivery.
- **Reduced Fuel Economy:** Worn or fouled spark plugs can lead to inefficient combustion, resulting in decreased fuel efficiency. Inspect and replace spark plugs as necessary.
- **Engine Overheating:** While not a primary cause, severely fouled or incorrect spark plugs can contribute to inefficient combustion, potentially leading to increased engine temperatures. Always consult a qualified mechanic for persistent engine overheating issues.
- **Engine Knocking or Pinging:** This can be caused by incorrect spark plug heat range, improper timing, or fuel issues. Ensure the correct spark plug type is used for your engine and consult a professional.

SPECIFICATIONS

Brand	NGK
Model Number	BR6HS BLYB
Core Material	Copper
Thread Size	14mm
Top Material Type	Nickel

Vehicle Service Type	Marine (also listed as Car, Truck in some specifications)
Global Trade Identification Number (GTIN)	00087295015070
UPC	087295015070
Product Dimensions	5.24 x 2.76 x 0.87 inches
Item Weight	0.353 ounces

WARRANTY INFORMATION

Specific warranty details for the NGK BR6HS BLYB Spark Plug are not provided in this manual. For comprehensive warranty information, please refer to the official NGK website or contact NGK customer support directly. Warranty terms typically cover manufacturing defects and are subject to the conditions outlined by the manufacturer.

SUPPORT

For technical assistance, product inquiries, or further support regarding your NGK BR6HS BLYB Spark Plug, please visit the official NGK website. You may also consult with a certified marine engine technician for professional advice on installation, maintenance, or troubleshooting specific to your vessel's engine. Always refer to your engine's specific service manual for detailed maintenance and repair procedures.