

Bds DLLA152P947

Instruction Manual: Common Rail Nozzle DLLA152P947

Model: DLLA152P947 | Brand: Bds

1. INTRODUCTION

This instruction manual provides essential information for the proper handling, installation, operation, and maintenance of the Bds Common Rail Nozzle DLLA152P947. This nozzle is designed for use with Denso Injector 093400-9470 and is compatible with CR injector 095000-6250, 16600-EC00A, and 16600-EC00D, specifically for NISSAN YD25 engines, including Nissan Navara YD25 Euro4 and Nissan Pathfinder YD25 Euro4 models from 2006/10 onwards. Adherence to these guidelines will ensure optimal performance and longevity of the product.

2. PRODUCT OVERVIEW

The DLLA152P947 common rail nozzle is a precision component critical to the fuel injection system of compatible diesel engines. It is an aftermarket part, brand new and tested to ensure safety and stability before shipping. Each package includes 6 nozzles.

Key Features:

- Part Number: DLLA152P947, 093400-9470.
- Package includes 6 pieces of nozzles.
- Condition: Brand New; Aftermarket Part.
- Fitment: Compatible with CR injector 095000-6250, 16600-EC00A & 16600-EC00D.
- Quality Assurance: 100% tested before shipping to ensure product safety and stability.

Product Images:



Figure 2.1: A set of six DLLA152P947 common rail nozzles, each securely packaged in its own clear protective tube with a red cap, ready for installation.



Figure 2.2: A single DLLA152P947 common rail nozzle displayed alongside a specialized black tool, which may be used for its precise handling or installation.



Figure 2.3: Two DLLA152P947 common rail nozzles are shown from different perspectives, accompanied by a black tool, highlighting their design and precision.



Figure 2.4: A DLLA152P947 common rail nozzle sealed in its clear plastic packaging, with the "BSD Diesel Injection" logo prominently featured in the background, indicating its origin.

3. SETUP AND INSTALLATION

The installation of common rail nozzles requires specialized knowledge, tools, and a clean environment to prevent contamination of the fuel system. Improper installation can lead to severe engine damage or malfunction.

- **Professional Installation Recommended:** It is strongly recommended that the installation of the DLLA152P947 nozzle be performed by a certified diesel mechanic or a qualified technician with experience in common rail fuel systems.
- **Cleanliness:** Ensure the work area, tools, and all fuel system components are meticulously clean. Even microscopic particles can cause significant damage to precision fuel injection components.
- **Component Compatibility:** Verify that the DLLA152P947 nozzle is the correct part for your specific injector (095000-6250, 16600-EC00A, 16600-EC00D) and vehicle application (NISSAN YD25 engines).
- **Torque Specifications:** Adhere strictly to the manufacturer's torque specifications for all fasteners during reassembly to prevent leaks or damage.
- **Seals and Gaskets:** Always replace old seals and gaskets with new ones during installation to ensure a proper seal.

and prevent fuel leaks.

4. OPERATING PRINCIPLES

The DLLA152P947 common rail nozzle is a critical component within a common rail direct injection (CRDI) system. Its primary function is to atomize fuel under extremely high pressure and inject it into the engine's combustion chamber at precise timings and quantities.

- **Fuel Atomization:** The nozzle's precision-machined orifices create a fine mist of fuel, which is essential for efficient combustion and reduced emissions.
- **Injection Timing and Quantity:** Controlled by the engine's Electronic Control Unit (ECU), the nozzle opens and closes rapidly to deliver fuel at the exact moment and in the precise amount required for optimal engine performance across various operating conditions.
- **High Pressure Operation:** Common rail systems operate at very high fuel pressures, which necessitates the robust and precise construction of the nozzle to withstand these forces and maintain consistent spray patterns.

5. MAINTENANCE

Proper maintenance of the fuel system is crucial for the longevity and performance of common rail nozzles. While the nozzles themselves are not typically user-serviceable, preventative measures can significantly extend their lifespan.

- **Use Clean Fuel:** Always use high-quality, clean diesel fuel. Contaminants in fuel are a leading cause of nozzle wear and clogging.
- **Regular Fuel Filter Replacement:** Adhere to or exceed the manufacturer's recommended intervals for fuel filter replacement. A clean fuel filter is the first line of defense against contaminants reaching the nozzles.
- **Avoid Fuel Additives (Unless Approved):** Only use fuel additives that are specifically approved by your vehicle manufacturer or a reputable diesel specialist. Some additives can be detrimental to common rail components.
- **System Checks:** Periodically have your fuel system inspected by a qualified technician for any signs of leaks, pressure issues, or unusual engine performance that might indicate nozzle problems.

6. TROUBLESHOOTING

Issues with fuel injector nozzles can manifest in various engine performance problems. If you experience any of the following symptoms, it may indicate a problem with your common rail nozzles. It is recommended to consult a qualified mechanic for diagnosis and repair.

Symptom	Possible Cause (Nozzle Related)	Recommended Action
Reduced Engine Power	Clogged or worn nozzle orifices, incorrect spray pattern.	Professional diagnostic scan, nozzle inspection/replacement.
Increased Fuel Consumption	Leaking nozzle, poor atomization leading to inefficient combustion.	Check for fuel leaks, professional nozzle testing.
Rough Idling or Misfires	Inconsistent fuel delivery from one or more nozzles.	Cylinder balance test, professional nozzle testing.
Excessive Exhaust Smoke	Incomplete combustion due to poor fuel atomization or incorrect injection.	Check fuel quality, professional nozzle inspection.
Difficulty Starting	Insufficient fuel delivery during cranking.	Check fuel pressure, professional nozzle testing.

Note: These are general troubleshooting steps. Always consult a qualified automotive technician for accurate diagnosis and

repair of fuel system issues.

7. SPECIFICATIONS

Attribute	Value
Part Number	DLLA152P947, 093400-9470
Brand	Bds
Manufacturer	Bluestars Diesel
Item Weight	9.6 ounces (for the 6-pack)
ASIN	B072JF43RY
UPC	756244982472
Application	CR injector 095000-6250, 16600-EC00A & 16600-EC00D (NISSAN YD25 engines)

8. WARRANTY INFORMATION

Specific warranty details for the Bds Common Rail Nozzle DLLA152P947 are not provided in the product information. Please refer to the seller's return policy for information regarding returns or contact the manufacturer, Bluestars Diesel, directly for any warranty inquiries.

Note: The product information indicates a 30-day return policy from the seller, which is distinct from a manufacturer's warranty.

9. SUPPORT AND CONTACT




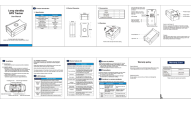

For technical support, installation guidance, or any questions regarding the Bds Common Rail Nozzle DLLA152P947, it is recommended to:

- Contact the seller directly through the platform where the purchase was made.
- Consult a certified diesel mechanic or a professional automotive technician.
- Refer to the official website or contact information for Bluestars Diesel (the manufacturer) for product-specific inquiries.

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Related Documents - DLLA152P947

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