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HIRINTOL YD25 YD25DI YD25DDTi

HIRINTOL YD25 Series Glow Plugs User Manual

Model: YD25 YD25DI YD25DDTi

1. Product Overview

This manual provides essential information for the installation, operation, and maintenance of your HIRINTOL YD25 Series Glow Plugs. These glow plugs are designed for specific Nissan Navara D40 2.5L and 3.0L engines, including YD25, YD25DI, and YD25DDTi models.

Key Features:

- Safe start-up from low ambient temperatures.
- Low emissions during warm-up phase.
- Stable idling running before engine reaches operating temperature.
- High-quality coating on shell for high resistance to corrosion.
- Unique shell design for excellent heat transfer.
- Perfect gas-tight sealing.
- High shear torque.
- High resistance to deformation and security of the heating coils.





Figure 1: Set of four HIRINTOL YD25 Series Glow Plugs.

2. Specifications

Attribute	Detail
Part Type	Glow Plug

Attribute	Detail
Material	Metal
Overall Length	163 mm
Tip Length	26 mm
Plug Voltage	7 volt
Battery Voltage	12 volt
Plug Thread Size	M10x1
Reference Numbers	0250603001-X-4, 11065-00Q0C, 11065-00Q0G, 11065-5X00A, 0250603001, 0250603002, ZPN-33308
Compatible Engine Models	Nissan YD25, YD25DI, YD25DDTi
Compatible Vehicle Models	Nissan Navara D40 (2005-2015) incl.: Outlaw, RX, ST, ST-X, Titanium Turbo Diesel DI 16v DOHC 4cyl YD25DDTi 2.5L 2488cc; Infiniti Q70 QX50 QX70; Nissan Interstar Murano Navara Pathfinder Primastar Qashqai X-Trail; Opel Movano Vivaro; Renault Espace Laguna; Vauxhall Movano Vivaro



Figure 2: Close-up view of a single HIRINTOL YD25 Series Glow Plug, showing its construction.

3. Installation

Proper installation is crucial for the optimal performance and longevity of your glow plugs. It is recommended that installation be performed by a qualified mechanic or an individual with appropriate automotive repair experience.

Installation Procedure:

1. **Preparation:** When a glow plug needs to be replaced, it is recommended to apply a synthetic engine oil around each glow plug. Ideally, allow the oil to penetrate for at least one week prior to removal. This step significantly reduces the risk of shearing the glow plug during removal and makes the process easier.
2. **Disconnection:** Manually disconnect each glow plug from its electrical wire. Ensure the engine is cool before proceeding.
3. **Removal:** Individually uninstall each old glow plug using a suitable torque wrench. Apply steady, even pressure to avoid damage.
4. **Cleaning the Bore:** Once an old glow plug is removed, use a glow plug hole reamer. Load the reamer with silicone-free grease. Carefully use the reamer to clean and empty each glow plug hole of carbon deposits. This ensures a clean seating surface for the new plug.
5. **New Plug Installation:** Manually install the new glow plugs into their respective seats. Ensure they are threaded correctly and do not cross-thread.
6. **Tightening:** Tighten each new glow plug with a correctly set torque wrench according to the vehicle manufacturer's specifications. Overtightening can damage the glow plug or cylinder head.
7. **Reconnection:** Reconnect the electrical wires to the new glow plugs.



Figure 3: Side profile of the glow plug, highlighting the threaded section for installation.

4. Operation

Glow plugs are essential components in diesel engines, primarily assisting in cold starting. When the engine is cold, the glow plugs heat the air within the combustion chamber to a temperature sufficient for ignition of the diesel fuel. This pre-heating process ensures a smooth and efficient engine start, especially in low ambient temperatures.
Once the engine starts, the glow plugs may continue to operate for a short period (post-glow) to reduce emissions and

stabilize idling until the engine reaches its optimal operating temperature. This contributes to a cleaner and more stable engine performance during the warm-up phase.

5. Maintenance

Glow plugs are wear-and-tear components and do not typically require routine maintenance beyond proper installation. However, regular engine diagnostics can help identify potential issues before they lead to significant problems.

Maintenance Tips:

- **Regular Inspections:** During routine vehicle servicing, have your mechanic inspect the glow plugs and their electrical connections for any signs of corrosion, damage, or loose wiring.
- **System Checks:** Ensure your vehicle's glow plug control module and relay are functioning correctly, as these components directly impact glow plug performance.
- **Timely Replacement:** Replace glow plugs as a set if one or more fail, as their lifespan is often similar. Refer to your vehicle's service manual for recommended replacement intervals.

6. Troubleshooting

Identifying symptoms of failing glow plugs can prevent further engine issues. The most common symptoms are related to engine starting and performance, especially in cold conditions.

Common Symptoms of a Bad Glow Plug:

- **Engine Misfiring:** An engine may misfire, especially during startup, if one or more glow plugs are not heating properly.
- **Hard Starting:** Difficulty starting the engine, particularly in cold weather, is a primary indicator of faulty glow plugs. The engine may crank for an extended period before starting.
- **Black or White Exhaust Smoke:**
  - *Black Smoke:* Indicates unburnt fuel, often due to insufficient heat for complete combustion.
  - *White Smoke:* Can indicate unburnt fuel vaporizing in the exhaust system, especially during cold starts.
- **Decreased Fuel Efficiency:** While not always immediately noticeable, a struggling engine due to faulty glow plugs can lead to increased fuel consumption.
- **Rough Idling:** The engine may idle roughly, particularly when cold, as cylinders with faulty glow plugs struggle to ignite fuel efficiently.

If you experience any of these symptoms, it is advisable to have your vehicle inspected by a professional to diagnose the issue and replace any faulty glow plugs.



Figure 4: Detailed view of the glow plug tip, the heating element responsible for ignition.

7. Warranty and Support

For information regarding warranty coverage and customer support for your HIRINTOL YD25 Series Glow Plugs, please refer to the purchase documentation or contact HIRINTOL customer service directly. Keep your proof of purchase for any warranty claims.

Manufacturer: HIRINTOL

Contact: Please visit the official HIRINTOL store on Amazon for contact information or further assistance:HIRINTOL

Store

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