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Parts ASAP K9670-240

Glow Plug Instruction Manual

Model: K9670-240 | Brand: Parts ASAP

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your new Parts ASAP Glow Plug. Designed for compatibility with specific Mitsubishi tractor models, this glow plug is a critical component for reliable cold starting of diesel engines. Please read this manual thoroughly before attempting any installation or maintenance procedures.

For optimal performance and safety, it is recommended that installation and maintenance be performed by qualified personnel.

2. PRODUCT OVERVIEW

The Parts ASAP Glow Plug (Model K9670-240) is a high-quality replacement part engineered to meet or exceed OEM specifications. It is designed to preheat the combustion chamber in diesel engines, facilitating easier starting in cold weather conditions.



Figure 2.1: The Parts ASAP Glow Plug, a critical component for diesel engine cold starts.

Key Features:

- Direct replacement for Mitsubishi OEM Number(s) K9670-240.
- Compatible with Mitsubishi Tractor models D1500 (II) and MT1500.
- Replaces Bosch Mfg Number(s) 0-250-200-066.
- Replaces Champion Mfg Number(s) CH307.
- Replaces NGK Mfg Number(s) Y-201.
- Dual Element Core Type for efficient heating.

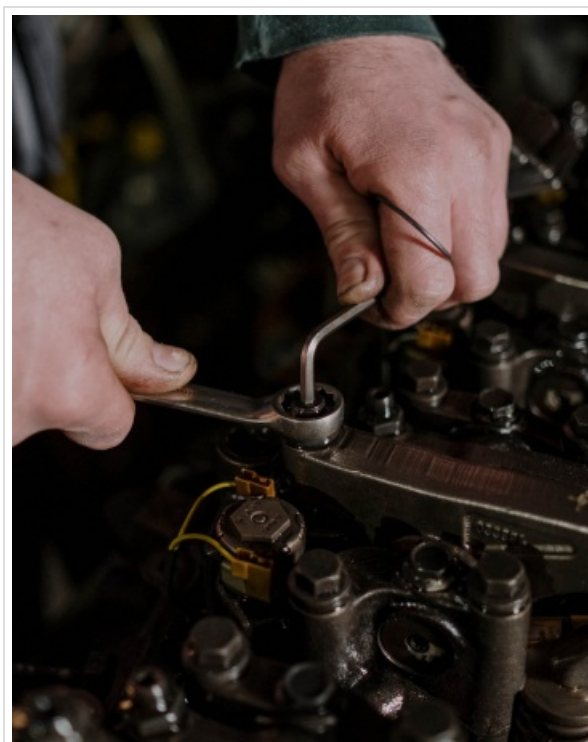


Figure 2.2: Proper installation of engine components is crucial for performance.

3. SETUP AND INSTALLATION

Before beginning installation, ensure the engine is cool and the battery is disconnected to prevent accidental starting or electrical shock. Refer to your tractor's service manual for specific glow plug locations and removal procedures.

Required Tools:

- Socket wrench set (including 12mm hex socket)
- Torque wrench
- Anti-seize compound (optional, but recommended)
- Wire brush or cleaner for glow plug ports

Installation Steps:

1. **Preparation:** Disconnect the battery. Locate the glow plugs on the engine cylinder head.
2. **Removal:** Carefully disconnect the electrical connectors from the old glow plugs. Using the appropriate socket, loosen and remove the old glow plugs. Be cautious not to damage the threads in the cylinder head.
3. **Inspection and Cleaning:** Inspect the glow plug ports for carbon buildup or debris. Clean the ports thoroughly using a wire brush or appropriate cleaning tool to ensure proper seating of the new glow plug.
4. **New Glow Plug Installation:** Apply a small amount of anti-seize compound to the threads of the new Parts ASAP Glow Plug. Carefully thread the new glow plug into the port by hand to avoid cross-threading.
5. **Torquing:** Using a torque wrench, tighten the glow plug to the manufacturer's specified torque setting. *Overtightening can damage the glow plug or cylinder head threads.*
6. **Connection:** Reconnect the electrical connectors to the new glow plugs, ensuring a secure fit.
7. **Final Check:** Reconnect the battery. Before starting the engine, double-check all connections and ensure no tools or debris are left in the engine bay.



Figure 3.1: The threaded end of the glow plug, which must be carefully installed into the engine block.

4. OPERATING PRINCIPLES

Glow plugs are essential for starting indirect injection diesel engines, especially in cold climates. When the ignition key is turned to the 'preheat' or 'glow' position, an electrical current flows through the glow plug's heating element. This element rapidly heats up, typically reaching temperatures of 800-1100°C (1472-2012°F) within seconds.

This intense heat is transferred to the air within the combustion chamber, raising its temperature sufficiently to ignite the atomized diesel fuel when the engine cranks. Once the engine starts, the glow plugs typically remain active for a short period (after-glow) to reduce white smoke and improve combustion stability during warm-up.

5. MAINTENANCE

Regular inspection and timely replacement of glow plugs are crucial for maintaining engine performance and ensuring reliable cold starts. While glow plugs are designed for durability, they are wear items and will eventually require replacement.

Inspection:

- **Visual Check:** Periodically inspect the glow plugs for signs of physical damage, corrosion on the terminals, or excessive carbon buildup on the heating element.
- **Resistance Test:** A common method to check glow plug functionality is to test its electrical resistance using a multimeter. Consult your tractor's service manual for the correct resistance values. A glow plug with infinite resistance (open circuit) is faulty.
- **Current Draw Test:** Some technicians may use an amp clamp to measure the current draw of each glow plug. A significantly lower or higher current draw than specified can indicate a problem.

Replacement:

Glow plugs should be replaced as a set, even if only one is found to be faulty. This ensures consistent performance across all cylinders and prevents premature failure of other older glow plugs. Follow the installation steps outlined in Section 3 for replacement.



Figure 5.1: Regular maintenance and inspection of all tractor components are vital for longevity.

6. TROUBLESHOOTING

If you experience issues with cold starting or engine performance, the glow plugs may be a contributing factor. Here are some common symptoms and troubleshooting steps:

Symptom	Possible Cause	Solution
Engine difficult to start when cold	One or more faulty glow plugs	Test glow plugs (resistance/current draw) and replace faulty ones. Check glow plug relay.
Excessive white smoke on startup	Glow plugs not heating sufficiently or unevenly	Inspect and replace faulty glow plugs. Check glow plug control module.
Glow plug light stays on or flashes	Fault in glow plug system (e.g., faulty glow plug, relay, or wiring)	Scan for diagnostic trouble codes (DTCs). Inspect wiring and connections. Test relay and glow plugs.
Engine misfires or runs rough after cold start	One or more glow plugs not functioning correctly	Test and replace any faulty glow plugs.

If troubleshooting steps do not resolve the issue, consult a qualified diesel mechanic or contact Parts ASAP customer support.

7. SPECIFICATIONS

Detailed specifications for the Parts ASAP Glow Plug (K9670-240):

Attribute	Value
Part Number	K9670-240
Voltage	10.5V
Overall Length	82mm
Tip Length	22mm
Thread Size	M12 x 1.25mm
Hex Size	12mm
Core Type	Dual Element
Compatible Tractors	Mitsubishi D1500 (II), MT1500
Replaces OEM/Mfg. Numbers	Mitsubishi K9670-240, Bosch 0-250-200-066, Champion CH307, NGK Y-201, HDS222

Note: Always verify thread diameter (10mm or 12mm) before ordering to ensure correct fitment.

8. WARRANTY INFORMATION

Parts ASAP stands behind the quality of its products. For specific warranty terms and conditions applicable to this glow plug, please refer to the warranty documentation included with your purchase or visit the official Parts ASAP website. Generally, warranty covers defects in materials and workmanship under normal use and service.

9. SUPPORT AND CONTACT

If you have any questions regarding the installation, operation, or maintenance of your Parts ASAP Glow Plug, or if you require technical assistance, please contact our customer support team.

For more information about Parts ASAP and our full range of agricultural and construction equipment parts, please visit our official store:

Visit the Parts ASAP Store on Amazon



Figure 9.1: Our dedicated support team is ready to assist you.