

## Denso 5331

# Denso ITF20 Spark Plugs User Manual

Model: 5331 | Pack of 4

## INTRODUCTION

This manual provides essential information for the installation, maintenance, and troubleshooting of your Denso ITF20 Spark Plugs (Model 5331). These Iridium Power spark plugs are designed for optimal engine performance and fuel efficiency. Please read this manual thoroughly before proceeding with any installation or maintenance.



Image: Four Denso ITF20 spark plugs, still in their individual protective sleeves, are arranged in front of a blue and silver Denso "Double Platinum" 4-pack box. The spark plugs feature a metallic body and white ceramic insulators.

## SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Failure to follow safety precautions can result in injury or damage to the vehicle.

- Ensure the engine is cool before beginning any work. Hot engine components can cause severe burns.
- Disconnect the negative terminal of the vehicle's battery to prevent accidental electrical discharge.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Keep a fire extinguisher nearby when working with automotive fluids.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.

## SETUP AND INSTALLATION

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Proper installation is crucial for the performance and longevity of your spark plugs. This guide provides general steps; always consult your vehicle's service manual for model-specific procedures.

### Tools Required:

- Spark plug socket (typically 5/8" or 13/16")
- Ratchet with extension
- Torque wrench
- Spark plug gap tool (if pre-gapped plugs are not used, though Denso Iridium Power plugs are typically pre-gapped)
- Dielectric grease (optional, for spark plug boots)
- Anti-seize compound (optional, for spark plug threads)

### Installation Steps:

1. **Preparation:** Ensure the engine is cool. Locate the spark plug wires or coil packs. Clean the area around the spark plugs to prevent debris from falling into the combustion chamber.
2. **Remove Old Plugs:** Carefully disconnect the spark plug wires or remove the coil packs. Use the spark plug socket and ratchet to loosen and remove each old spark plug. Remove one plug at a time to avoid mixing up wires/coils.
3. **Inspect New Plugs:** Denso Iridium Power spark plugs are typically pre-gapped from the factory. Avoid adjusting the gap unless specifically instructed by your vehicle's manual, as improper gapping can damage the fine iridium tip.
4. **Install New Plugs:** Apply a small amount of anti-seize compound to the threads of the new spark plugs (optional, but recommended for easier future removal). Carefully thread the new spark plug into the cylinder head by hand to avoid cross-threading.
5. **Torque Plugs:** Once hand-tight, use a torque wrench to tighten the spark plug to the manufacturer's specified torque setting. Refer to your vehicle's service manual for the correct torque. Overtightening can damage the spark plug or cylinder head; undertightening can lead to misfires.
6. **Reconnect:** Reconnect the spark plug wires or coil packs, ensuring they click securely into place. Apply dielectric grease to the inside of the spark plug boots if desired to prevent moisture and improve connection.
7. **Final Check:** Double-check all connections and ensure no tools or debris are left in the engine bay. Reconnect the battery's negative terminal.

## OPERATION

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Once installed, Denso ITF20 spark plugs operate as a critical component of your vehicle's ignition system. They generate the spark required to ignite the air-fuel mixture in the combustion chamber, initiating the power stroke of the engine. Proper spark plug function ensures efficient combustion, leading to optimal engine performance, fuel economy, and reduced emissions.

## MAINTENANCE

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Spark plugs are wear items and require periodic inspection and replacement. The lifespan of spark plugs varies depending on vehicle type, driving conditions, and spark plug material. Denso Iridium Power spark plugs are designed for extended life.

- **Inspection:** Consult your vehicle's owner's manual for recommended inspection intervals. During inspection, check for signs of wear, fouling (oil, carbon, or ash deposits), or damage to the electrode.
- **Replacement:** Replace spark plugs according to your vehicle manufacturer's recommended schedule, typically

every 60,000 to 100,000 miles for iridium plugs, or sooner if performance issues arise.

## TROUBLESHOOTING

Issues related to spark plugs often manifest as engine performance problems. If you experience any of the following, your spark plugs may need inspection or replacement:

- **Engine Misfires or Rough Idling:** A common sign of a failing spark plug or ignition coil.
- **Reduced Fuel Economy:** Worn spark plugs can lead to inefficient combustion.
- **Difficulty Starting:** Weak or inconsistent spark can make starting the engine challenging.
- **Lack of Acceleration or Power:** Incomplete combustion due to faulty spark plugs can reduce engine output.
- **Check Engine Light:** A misfire detected by the engine's computer will often trigger the check engine light.

If these symptoms occur, it is recommended to have your vehicle inspected by a qualified mechanic or perform a diagnostic check.

## SPECIFICATIONS

Feature	Specification
Brand	Denso
Model Number	5331 (ITF20)
Core Material	Iridium
Thread Size	14mm
Item Weight (Pack of 4)	~7.7 ounces
Product Dimensions	3.62 x 3.84 x 0.96 inches (packaging)
UPC	042511533141

## WARRANTY AND SUPPORT

For specific warranty information regarding your Denso ITF20 Spark Plugs, please refer to the documentation provided with your purchase or contact Denso customer support directly. Warranty terms typically cover manufacturing defects. For technical support or further assistance, please visit the official Denso website or consult a certified automotive technician.



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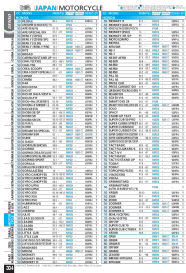
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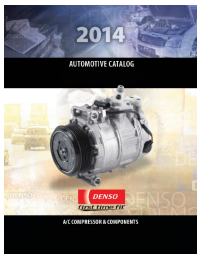
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