

## Denso SXU22HCR11S

# DENSO Iridium Long Life Spark Plugs Instruction Manual

Model: SXU22HCR11S

## INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of your DENSO Iridium Long Life Spark Plugs (Model: SXU22HCR11S). These genuine DENSO spark plugs are designed for superior performance and durability in compatible vehicles. Please read this manual thoroughly before installation or use.

## PRODUCT OVERVIEW



Figure 1: DENSO Iridium Long Life Spark Plugs (SXU22HCR11S) and packaging.

DENSO Iridium Long Life Spark Plugs feature an iridium-tipped center electrode and a platinum-tipped ground electrode, offering enhanced durability and a longer service life compared to conventional spark plugs. This design contributes to improved ignition performance, better fuel efficiency, and reduced emissions.

## INSTALLATION AND SETUP

Proper installation is crucial for optimal performance and longevity. It is highly recommended that spark plug installation be performed by a qualified automotive technician. Refer to your vehicle's specific service manual for detailed instructions, torque specifications, and safety precautions.

### Pre-Installation Checks:

- **Verify Compatibility:** Ensure the spark plugs (Model: SXU22HCR11S) are the correct type for your vehicle's make, model, and engine.
- **Inspect Plugs:** Before installation, visually inspect each spark plug for any signs of damage (e.g., cracked insulator, bent electrodes).

- **Check Gap:** While DENSO Iridium Long Life plugs are typically pre-gapped for their intended application, it is good practice to verify the gap using a wire-type feeler gauge. Adjust only if necessary and with extreme care to avoid damaging the iridium tip. Refer to your vehicle's service manual for the correct gap specification.



Figure 2: Close-up view of the spark plug electrodes.

### Installation Steps (General Guidance):

1. Allow the engine to cool completely before starting.
2. Disconnect the negative terminal of the vehicle's battery.
3. Carefully remove ignition coils/spark plug wires.
4. Use a spark plug socket to remove old spark plugs.
5. Clean the spark plug wells and threads.
6. Thread new spark plugs by hand to prevent cross-threading.
7. Torque spark plugs to the manufacturer's specified setting using a torque wrench. **Do not overtighten.**
8. Reinstall ignition coils/spark plug wires, ensuring a secure connection.
9. Reconnect the battery terminal.

### OPERATING PRINCIPLES

Spark plugs are a critical component of your vehicle's ignition system. They generate an electrical spark that ignites the air-fuel mixture in the engine's combustion chambers, initiating the power stroke. DENSO Iridium Long Life Spark Plugs are engineered to provide a consistent and powerful spark, contributing to:

- **Improved Fuel Efficiency:** Precise ignition helps ensure complete combustion.
- **Enhanced Engine Performance:** Consistent spark leads to smoother idling and better acceleration.
- **Reduced Emissions:** Efficient combustion minimizes harmful exhaust gases.
- **Longer Service Life:** The use of iridium and platinum materials significantly extends the lifespan of the plugs.

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## SPARK PLUGS

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Figure 3: Side view of the four-pack of Denso spark plugs.

### MAINTENANCE

While DENSO Iridium Long Life Spark Plugs are designed for extended intervals, regular maintenance checks are still beneficial for overall engine health.

#### Recommended Inspection and Replacement:

- **Replacement Interval:** Always follow your vehicle manufacturer's recommended spark plug replacement schedule. For most vehicles, iridium spark plugs can last significantly longer than traditional copper plugs, often exceeding 100,000 miles.
- **Visual Inspection:** During routine engine checks, you or your technician can visually inspect the spark plugs for signs of wear, fouling (carbon, oil, or ash deposits), or damage.
- **Engine Performance:** Pay attention to changes in engine performance, such as misfires, rough idling, or decreased fuel economy, which could indicate worn spark plugs.



Figure 4: Back of the spark plug packaging showing model details.

### TROUBLESHOOTING

If you experience issues with your vehicle's engine performance, spark plugs can sometimes be a contributing factor. Here are common symptoms and potential causes related to spark plugs:

Symptom	Possible Spark Plug Related Cause
Engine Misfire / Rough Idling	Worn electrodes, incorrect gap, fouled plug, or damaged insulator.
Reduced Fuel Economy	Inefficient combustion due to worn or fouled plugs.
Hard Starting	Weak or inconsistent spark from worn plugs.
Lack of Acceleration / Power	Poor ignition leading to incomplete combustion.

If you encounter any of these symptoms, it is advisable to have your vehicle inspected by a professional mechanic. They can diagnose the root cause and determine if spark plug replacement or other repairs are necessary.

## SPECIFICATIONS

Attribute	Value
Brand	Denso
Model Number	SXU22HCR11S
Manufacturer Part Number	3461
Core Material	Iridium
Gap Size	0.04 Inches
Thread Size	12mm
Item Weight	0.01 ounces (per plug, approximate)
Product Dimensions (per plug, approximate)	3.62 x 3.84 x 0.96 inches

## WARRANTY INFORMATION

Specific warranty details for DENSO products, including these spark plugs, are typically provided by the manufacturer or the authorized retailer at the time of purchase. Please retain your proof of purchase. For the most accurate and up-to-date warranty information, please refer to the official DENSO website or contact DENSO customer support directly.

## SUPPORT AND CONTACT

For technical assistance, product inquiries, or support regarding your DENSO Iridium Long Life Spark Plugs, please contact DENSO customer service. You can typically find contact information on the official DENSO website ([www.denso.com](http://www.denso.com)) or through your authorized DENSO product distributor.

