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> A-Premium Iridium & Platinum Spark Plugs (APSP225) Instruction Manual

## A-premium APSP225

# A-Premium Iridium & Platinum Spark Plugs (APSP225) Instruction Manual

Model: APSP225 | Brand: A-Premium

## 1. PRODUCT OVERVIEW

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A-Premium Spark Plugs are designed to replace original equipment spark plugs, meeting or exceeding OEM specifications for optimal performance and durability. These Iridium & Platinum spark plugs are engineered for enhanced ignition and longevity.

### 1.1 Vehicle Compatibility

These spark plugs are compatible with the following vehicle models:

- **Chevrolet Spark:** 2013-2015 L4 1.2L
- **Fiat 500:** 2012-2017 L4 1.4L (Naturally Aspirated Only)

**Reference Numbers:** 97637, SP192435AA, DCPR7EIX, 6046, 4983, DCPR7EN10, 1682, DCPR7EGP.



**Compatible with Fiat Models:**

- 2012-2017 500 L4 1.4L

**Compatible with Chevrolet Models:**

- 2013-2015 Spark L4 1.2L

**Reference Number:**

- 97637
- DCPR7EIX
- 6046
- DCPR7EIX
- 97637
- 4983
- ,DCPR7EN10
- 1682
- DCPR7EGP

Figure 1: Compatibility and Reference Numbers

## 1.2 Key Features

- **Center Electrode Tip Material:** Iridium
- **Center Electrode Core Material:** Platinum
- **Resistance (ohms):** 1000
- **Gap Size (IN):** 0.027"-0.031"
- Nickel-plated threads with anti-seizing properties.
- Fine iridium tip ensures consistent sparks.
- Optimum heat range enhances durability.
- Engineered for maximum ignition performance, leading to quicker and smoother starts and improved fuel economy.



### **Iridium Center Electrode**

- Nickel-plated threads with anti-seizing properties
- Fine iridium tip ensures consistent sparks
- Optimum heat range enhances durability
- Exceptional ignitability and performance

**4 Pieces**



Figure 2: Iridium Center Electrode Features

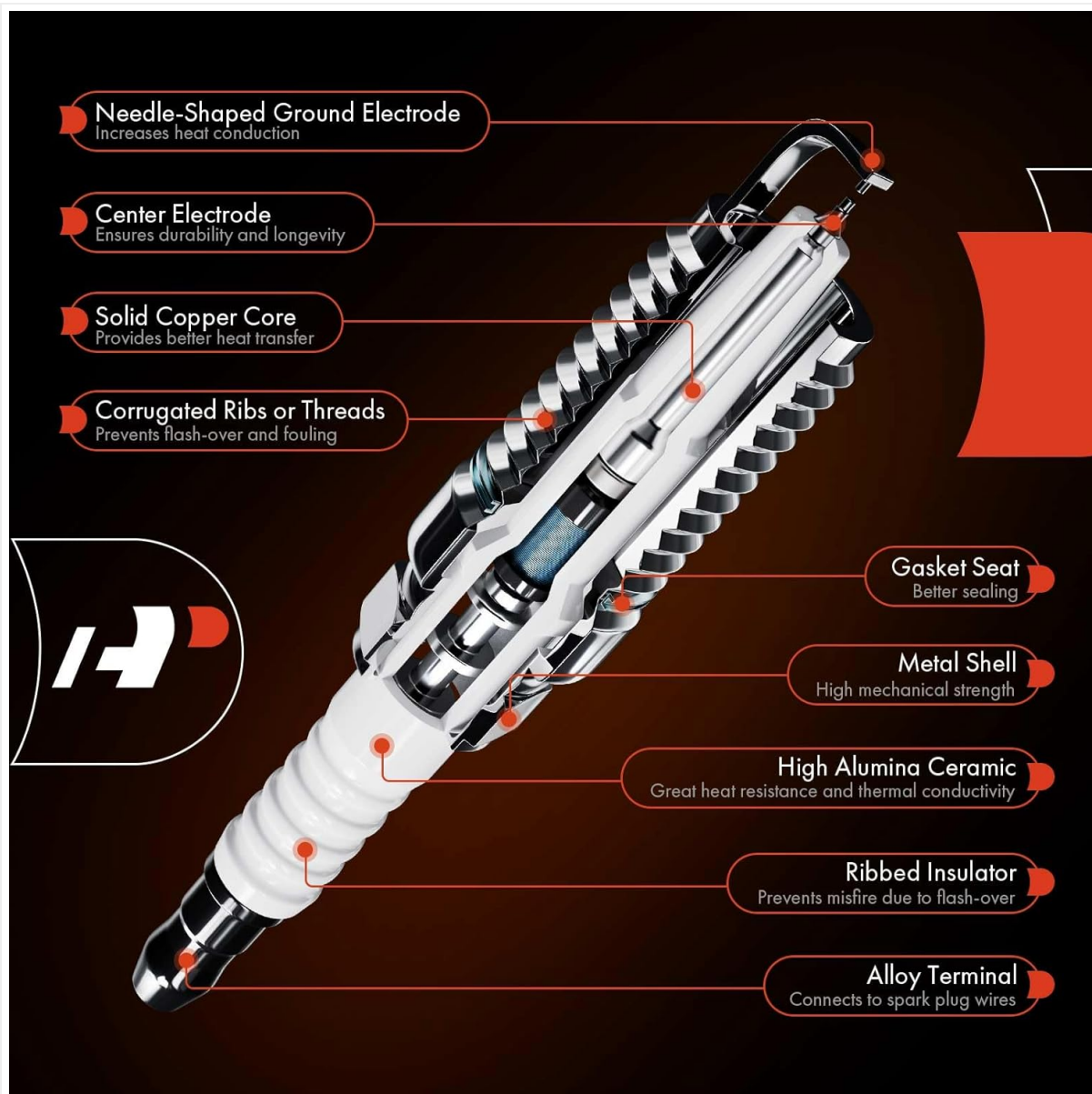


Figure 3: Spark Plug Component Diagram

## 2. INSTALLATION INSTRUCTIONS

Proper installation of spark plugs is crucial to prevent engine damage and ensure optimal performance. It is highly recommended to consult a professional mechanic for installation, especially if you are unfamiliar with the process.

### General Installation Steps:

1. Ensure the engine is cool before starting.
2. Disconnect the battery's negative terminal.
3. Remove spark plug wires or coil packs.
4. Clean the area around the spark plugs to prevent debris from entering the combustion chamber.
5. Remove old spark plugs using a spark plug socket.
6. Inspect the new spark plugs for correct gap (0.027"-0.031"). Do not adjust the gap on iridium/platinum plugs unless specifically instructed by the manufacturer, as this can damage the fine electrode.
7. Install new spark plugs by hand to avoid cross-threading.
8. Tighten the spark plugs to the specified torque using a torque wrench. Refer to the torque specifications below.
9. Reinstall spark plug wires or coil packs and reconnect the battery.

## 2.1 Spark Plug Torque Specifications

Refer to the following table for recommended torque specifications. Always confirm with your vehicle's service manual for precise values.

Plug Type	Iron Cover		Aluminum Cover	
	N.m	Kgf.m	N.m	Kgf.m
Flat Type (with gasket)	15 – 25	1.5 – 2.6	15 – 26	1.5 – 2.6
Taper Type (without gasket)	10 – 20	1.0 – 2.0	10 – 20	1.0 – 2.0
10mm Flat Seat	10 – 15	1.0 – 1.5	10 – 15	1.0 – 1.5
12mm Flat Seat	15 – 25	1.5 – 2.6	15 – 26	1.5 – 2.6
14mm Flat Seat	20 – 40	2.0 – 4.1	20 – 40	2.0 – 4.1
14mm Flat Seat	10 – 20	1.0 – 2.0	10 – 20	1.0 – 2.0
18mm Flat Seat	35 – 45	3.6 – 4.6	30 – 40	3.6 – 4.1
18mm Taper Seat	20 – 30	2.0 – 3.1	20 – 30	2.0 – 3.1



## Matters Needing Attention

**Attention :** Proper installation of the spark plugs is crucial to prevent engine damage. Install with clean, dry threads and reduce torque by one-third if threads are lubricated. It is highly recommended to consult a professional mechanic for installation.



SPARK PLUG TORQUE SPECIFICATIONS				
Plug Type Flat Type (with gasket) Taper Type (without gasket)	Iron cover		Aluminum cover	
	N.m	Kgf.m	N.m	Kgf.m
10mm Flat Seat	10 ~ 15	1.0 ~ 1.5	10 ~ 15	1.0 ~ 1.5
12mm Flat Seat	15 ~ 25	1.5 ~ 2.6	15 ~ 26	1.5 ~ 2.6
14mm Flat Seat	20 ~ 40	2.0 ~ 4.1	20 ~ 40	2.0 ~ 3.1
14mm Flat Seat	10 ~ 20	1.0 ~ 2.0	10 ~ 20	1.0 ~ 2.0
18mm Flat Seat	35 ~ 45	3.6 ~ 4.6	30 ~ 40	3.6 ~ 4.1
18mm Taper Seat	20 ~ 30	2.0 ~ 3.1	20 ~ 30	2.0 ~ 3.1

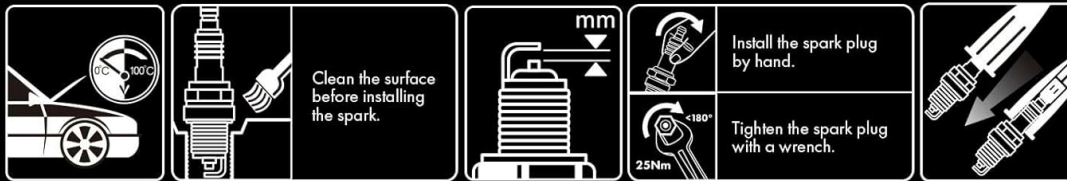


Figure 4: Important Installation Considerations and Torque Guide

### 3. OPERATING PRINCIPLES AND BENEFITS

Spark plugs are critical components in gasoline engines, responsible for igniting the air-fuel mixture in the combustion chamber. Iridium and Platinum spark plugs offer superior performance compared to traditional nickel plugs due to their advanced electrode materials and design.

#### 3.1 Performance Advantages

- **Enhanced Ignition:** The fine iridium tip and platinum core allow for a sharper and more focused spark, promoting reliable ignition and efficient combustion.
- **Improved Fuel Economy:** More efficient combustion can lead to better fuel utilization.
- **Quicker and Smoother Starts:** Consistent and powerful sparks contribute to easier engine starting.
- **Reduced Emissions:** Optimized combustion can help minimize harmful exhaust emissions.

# SPARK THE DIFFERENCE

Upgrade Your Spark Plugs for Superior Acceleration!

Iridium spark plugs allows for a sharper and more focused spark, promoting reliable ignition and combustion in the engine.



Nickel



**Red spark:** Indicates a cooler operating temperature  
**Large electrode gap:** commonly between 0.6 to 1.0 mm, Tends to wear out more quickly and requires more frequent replacements, leading to decreased performance.

Double Platinum/Iridium



**Blue Spark:** Indicates a hotter operating temperature  
**Small electrode gap:** usually between 0.4 to 0.8 mm Allows for more precise and focused spark formation, resulting in improved combustion efficiency.

Figure 5: Spark Plug Type Comparison



Figure 6: Benefits of Advanced Spark Plugs

## 4. MAINTENANCE AND REPLACEMENT

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Regular maintenance and timely replacement of spark plugs are essential for maintaining optimal engine performance and fuel efficiency. The lifespan of spark plugs varies depending on their material and driving conditions.

### 4.1 Recommended Replacement Schedule

For optimal engine performance and longevity, it is recommended to replace platinum iridium spark plugs at mileage intervals of 80,000 to 100,000 miles.



## Recommended Maintenance Schedule

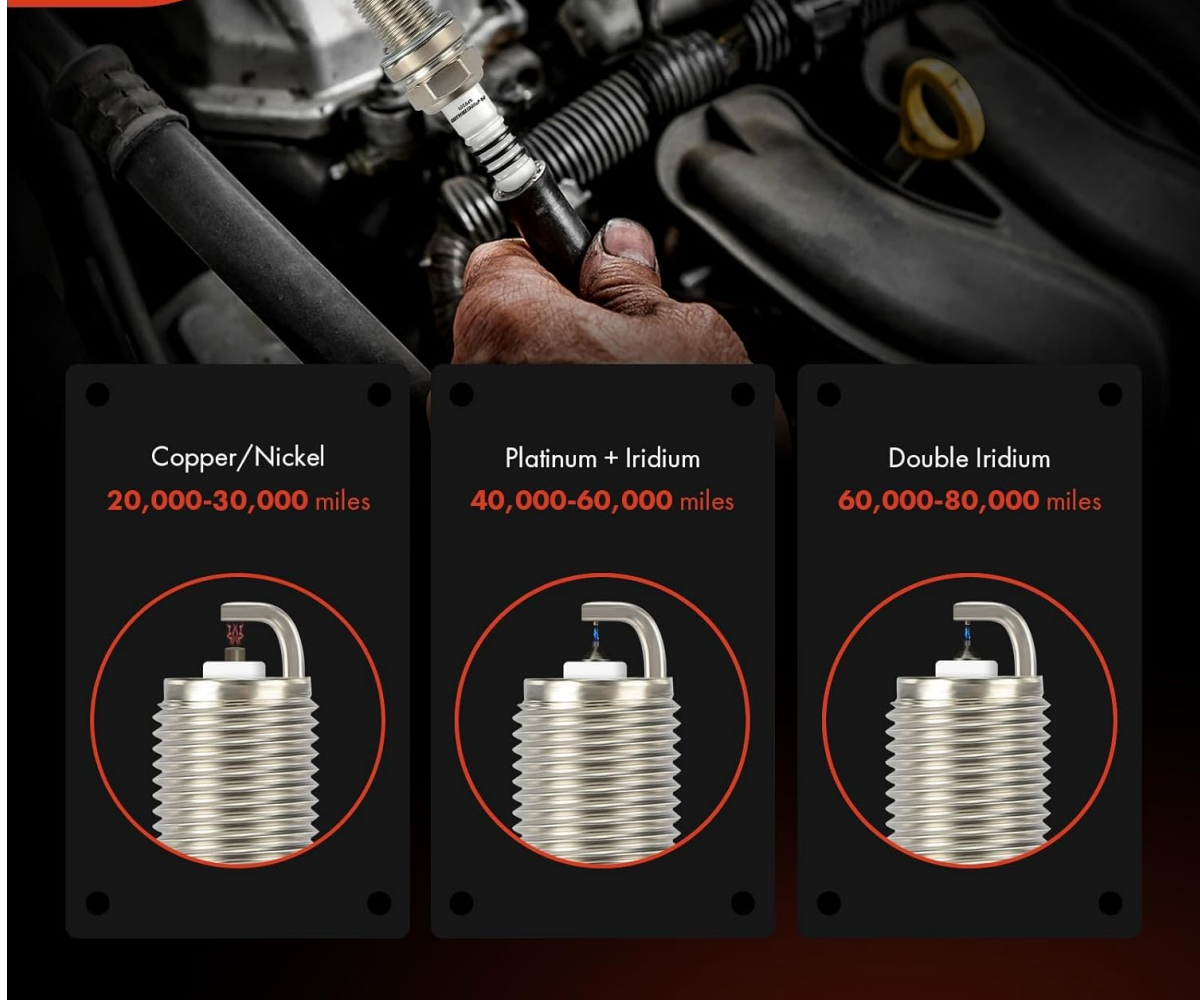


Figure 7: Spark Plug Maintenance Schedule

Always refer to your vehicle's owner's manual for specific maintenance intervals and recommendations.

## 5. TROUBLESHOOTING

If you experience issues such as engine misfires, rough idling, reduced fuel economy, or difficulty starting after spark plug replacement, consider the following:

- **Incorrect Installation:** Ensure spark plugs are correctly torqued and not cross-threaded.
- **Incorrect Gap:** Verify the spark plug gap is within the specified range for your vehicle.
- **Damaged Plug:** A dropped or mishandled spark plug can be damaged, leading to performance issues.
- **Other Engine Issues:** Spark plug issues can sometimes mask other underlying engine problems.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified automotive technician for diagnosis and repair.

## 6. PRODUCT SPECIFICATIONS

Specification	Value
Condition	New
Center Electrode Core Material	Platinum
Center Electrode Tip Material	Iridium
Gap Size (IN)	0.027"-0.031"
Ground Configuration	Standard
Ground Electrode Quantity	1
Hex Size (IN)	5/8
Insulator Height (mm)	51.00
Manufacturer Heat Range	7
Part Number	DCPR7EIX SOLID
Reach (mm)	19
Resistance (ohms)	5000 (Note: Feature bullets state 1000, description states 5000. Using 5000 from description as it's more detailed.)
Resistor Type	Yes
Seat Type	Flat
Thread Diameter (MM)	12.00
OEM Number	97637, DCPR7EIX, 6046, DCPR7EIX, 97637, 4983, DCPR7EN10, 1682, DCPR7EGP
Quantity Sold	A Set of Four Pieces
Manufacturer Part Number	APSP225
Item Weight	180 g
Country of Origin	China

## 7. WARRANTY AND SUPPORT

A-Premium Spark Plugs come with a **one-year quality guarantee**. This warranty covers manufacturing

defects and ensures the product meets its stated quality standards.

For warranty claims, technical support, or any product-related inquiries, please contact the seller or A-Premium customer service through the platform where the product was purchased.

## 8. ADDITIONAL RESOURCES

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### 8.1 Product Videos

Your browser does not support the video tag.

Video 1: A-Premium Iridium Spark Plug Overview. This video provides a visual demonstration and overview of the spark plug, highlighting its features and design.

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Video 2: Iridium Spark Plug Features and Packaging. This video showcases the packaging and detailed features of an iridium spark plug, including its construction and design elements.