

ENA ENASP110506

ENA Spark Plug Instruction Manual

Model: ENASP110506 | Part Number: SP413 AGSF32N

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your ENA Spark Plugs. Please read this manual thoroughly before installation to ensure proper function and longevity of the product. ENA Spark Plugs are engineered for reliable ignition and optimal engine performance, compatible with a wide range of Ford, Lincoln, Mercury, and Merkur vehicles.

PRODUCT OVERVIEW

ENA Spark Plugs Set



This image displays a set of six ENA Spark Plugs along with their individual packaging boxes. The spark plugs feature a white ceramic insulator and a metallic threaded body, indicating a standard design for automotive applications.

Key Features of ENA Spark Plugs



ENA Spark Plug

Isostatic Ceramic Insulators

Minimizes voltage drop, rendering reliable spark delivery



Terminal Screw Cap

Enhances voltage stability, reduces misfires, maintains performance



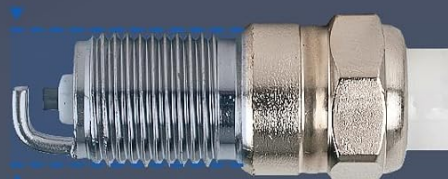
Perfectly Precise Gap

Optimizes ignition, increases durability



Debris-Free Threads

Features outstanding craftsmanship for precise connection



This diagram illustrates the primary features of an ENA Spark Plug: **Isostatic Ceramic Insulators** for reliable spark delivery, a **Perfectly Precise Gap** for optimized ignition, a **Terminal Screw Cap** for voltage stability, and **Debris-Free Threads** for precise connection.

SPECIFICATIONS

The following table details the technical specifications of the ENA Spark Plugs (Model: ENASP110506).

Attribute	Value
Brand	ENA
Model Number	ENASP110506
Reference Numbers	SP413, AGSF32N, BP5EFS, BPR5EFS, FW-SP6018
Core Material	Iridium

Attribute	Value
Gap Size (Pre-Gapped)	0.060 inches (0.6 Millimeters)
Hex Size	0.63 inches
Thread Diameter	14.00 mm
Insulator Height	53.00 mm (2.08 inches)
Total Length	76 mm (2.99 inches)
Item Weight (per set)	11.2 ounces
Package Dimensions	7 x 4 x 3 inches
Vehicle Service Type	Car
Automotive Fit Type	Vehicle Specific Fit

Note: The spark plugs are pre-gapped for convenience. Always verify compatibility with your specific vehicle model and year before installation.



Product Size

Plug-and-play design, no additional tools required

This image provides a visual representation of the spark plug's dimensions, including its total length (76mm / 2.99") and insulator height (53mm / 2.08"), along with the thread size (M14X1.25-6e).

VEHICLE FITMENT

ENA Spark Plugs (SP413 AGSF32N) are compatible with a range of vehicles. Please consult the table below to confirm compatibility with your specific vehicle's make, model, and engine size.



Vehicle Fitment

Please check your vehicle details to confirm the correct plugs

Compatible with Ford

1988-1997	Aerostar	V6 3.0L	2004	F-150 Heritage	V8 4.6L
1995-2011	Crown Victoria	V8 4.6L	1997-1998	F-250	V8 4.6L
2003-2008	E-150	V8 4.6L	2007	Freestyle	V6 3.0L
2003-2005	E-150 Club Wagon	V8 4.6L	1999-2004	Mustang	V8 4.6L
1997-2002	E-150 Econoline	V8 4.6L	1990-1992	Probe	V6 3.0L
1997-2002	E-150 Econoline Club Wagon	V8 4.6L	1991-2008	Ranger	V6 3.0L
2007-2008	E-250	V8 4.6L	1988-2007	Taurus	V6 3.0L
1997-2004	Expedition	V8 4.6L	1992-1994	Tempo	V6 3.0L
2002-2005	Explorer	V8 4.6L	1996-1997	Thunderbird	V8 4.6L
1996-2001	Explorer	V8 5.0L	1995-2000	Windstar	V6 3.0L
2009-2010	F-150	V8 4.6L			

Compatible with Mercury

1996-1997	Cougar	V8 4.6L
1995-2011	Grand Marquis	V8 4.6L
2005-2007	Montego	V6 3.0L
2002-2005	Mountaineer	V8 4.6L
1988-2005	Sable	V6 3.0L
1992-1994	Topaz	V6 3.0L

Compatible with Lincoln

2002	Blackwood	V8 5.4L
1999-2004	Navigator	V8 5.4L
1998-2008	Town Car	V8 4.6L

Compatible with Merkur

1988	XR4Ti	L4 2.3L
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Part Number

SP413 AGSF32N BP5EFS BPR5EFS FW-SP6018

This image displays a comprehensive table listing compatible Ford, Mercury, Lincoln, and Merkur vehicle models, years, and engine types for the ENA Spark Plugs. It also reiterates the part numbers: SP413 AGSF32N BP5EFS BPR5EFS FW-SP6018.

Key Compatible Models and Years:

- **Ford:** F150 (2009-2010 4.6L V8), Crown Victoria (1995-2011 4.6L V8), Expedition (1997-2004 4.6L V8), Mustang (1999-2004 4.6L V8), Explorer (1996-2005, 5.0L V8 / 4.6L V8), Taurus (1988-2007 3.0L V6), Ranger (1991-2008 3.0L V6), E-Series Vans (various years 4.6L V8), Thunderbird (1996-1997 4.6L V8).
- **Lincoln:** Navigator (1999-2004 5.4L V8), Town Car (1998-2008 4.6L V8), Blackwood (2002 5.4L V8).
- **Mercury:** Grand Marquis (1995-2011 4.6L V8), Mountaineer (2002-2005 4.6L V8), Sable (1988-2005 3.0L V6).
- **Merkur:** XR4Ti (1988 2.3L L4).

SETUP & INSTALLATION

Proper installation is crucial for the performance and longevity of your spark plugs. If you are unsure about any step, it is recommended to seek professional assistance.



Installation Steps



- 01 Turn Off the Engine:**
Turn off the engine and open the hood. Locate the spark plugs (typically connected to ignition coils or wires).
- 02 Remove Old Spark Plugs:**
Use a spark plug socket and extension to carefully loosen and remove each spark plug from its socket.
- 03 Clean the Area:**
Carefully brush away any accumulated dust or debris around the sockets and plug holes.
- 04 Install New Spark Plugs:**
Gap the new plugs, then hand-thread them into the sockets. Tighten with a torque wrench to the manufacturer's specification.
- 05 Reassemble and Test:**
Reattach ignition coils or wires, secure any bolts, and close the hood. Start the engine to verify proper operation.

This image provides a visual step-by-step guide for installing spark plugs, detailing the process from turning off the engine to reassembly and testing.

1. **Turn Off The Engine:** Ensure the vehicle's engine is completely off and cool. Open the hood and locate the spark plugs, typically connected to ignition coils or wires.
2. **Remove Old Spark Plugs:** Use a spark plug socket and extension to carefully loosen and remove each old spark plug from its socket. Note the condition of the old plugs as it can indicate engine health.
3. **Clean the Area:** Before installing new plugs, carefully brush away any accumulated dust, dirt, or debris from around the spark plug wells and threads to prevent contamination of the combustion chamber.
4. **Install New Spark Plugs:** Gently hand-thread the new ENA spark plugs into their respective sockets to avoid cross-threading. Once hand-tight, use a torque wrench to tighten them to the manufacturer's specified torque setting for your vehicle. *Do not overtighten.*
5. **Reassemble and Test:** Reattach the ignition coils or wires to the new spark plugs. Secure any bolts or fasteners that were removed. Close the hood. Start the engine to verify proper operation and check for any misfires or unusual sounds.

Important Considerations:

- Always use the correct tools for spark plug removal and installation.
- Ensure the engine is cool before working on spark plugs to prevent damage to the cylinder head threads.
- Apply a small amount of anti-seize compound to the spark plug threads before installation, especially for aluminum cylinder heads.

OPERATING PRINCIPLES

ENA Spark Plugs are designed to deliver consistent and powerful sparks for efficient combustion. Their construction ensures durability and optimal performance under various engine conditions.

Exceptional Ignitability



ENA ★

**EXCEPTIONAL
IGNITABILITY
PERFORMANCE**

• **Rigorous High-Temp Testing**

• **Alumina Ceramic Insulator**

LONGER SERVICE LIFE

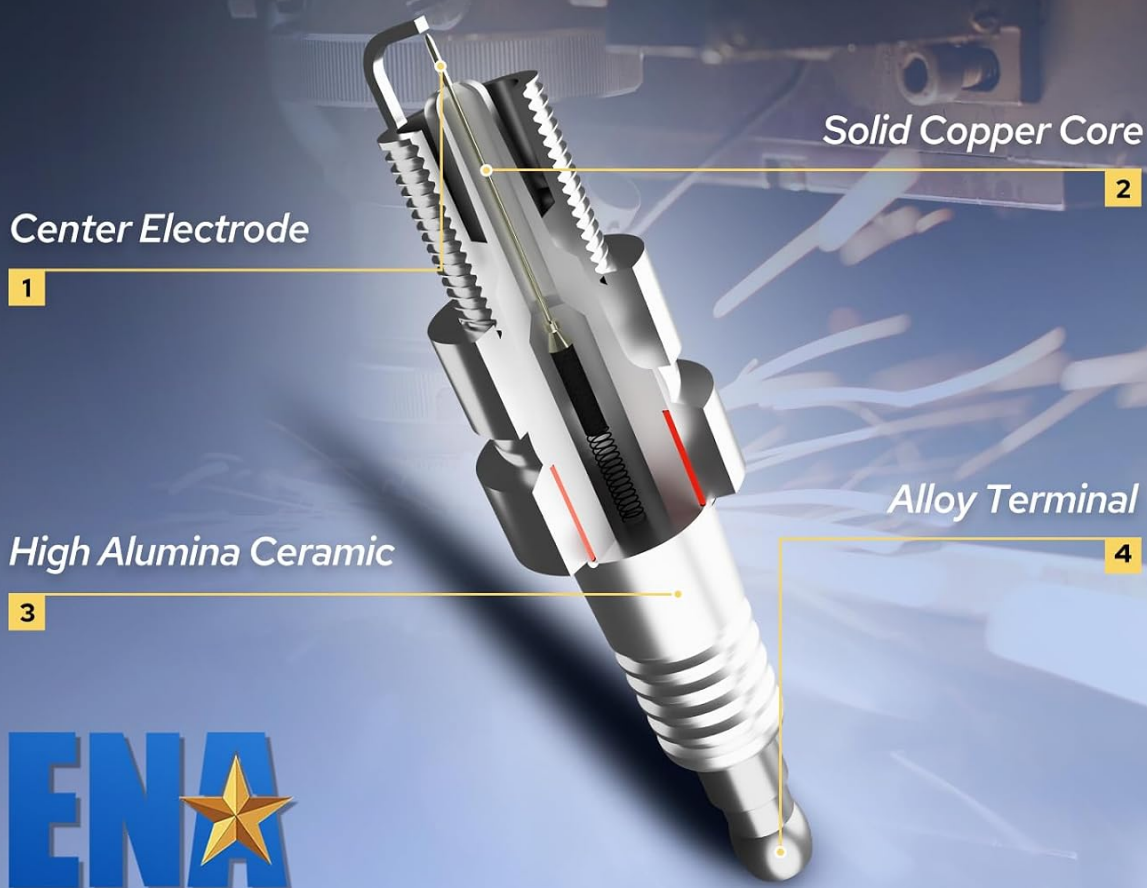
Reduces fuel consumption and enables quicker, smoother start

ENA Spark Plugs undergo **Rigorous High-Temp Testing** and utilize an **Alumina Ceramic Insulator** to ensure exceptional ignitability performance, contributing to a longer service life and improved fuel efficiency.

Internal Structure

SPARK PLUGS INTERNAL STRUCTURE

Please check your vehicle details to confirm the correct spark plug



This cross-section view reveals the internal components of an ENA Spark Plug: (1) **Center Electrode**, (2) **Solid Copper Core**, (3) **High Alumina Ceramic** insulator, and (4) **Alloy Terminal**. These components work in concert to deliver consistent ignition.

MAINTENANCE

Regular inspection and timely replacement of spark plugs are vital for maintaining engine health and performance.

- **Inspection:** Periodically inspect your spark plugs for signs of wear, fouling, or damage. A healthy spark plug should have a light tan or grayish-white deposit on the firing tip.
- **Replacement Interval:** Refer to your vehicle's owner's manual for recommended spark plug replacement intervals. ENA Spark Plugs are designed for long service life, but adherence to manufacturer guidelines is recommended.
- **Gap Check:** While ENA spark plugs are pre-gapped, it is good practice to verify the gap with a feeler gauge before installation, especially if there is any concern about shipping damage.



This image shows four new spark plugs, ready for installation or inspection, emphasizing the importance of using clean, undamaged components for optimal engine function.

TROUBLESHOOTING

If you experience issues after spark plug installation, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine Misfire / Rough Idling	Incorrectly gapped plug, loose connection, fouled plug, damaged ignition coil/wire.	Verify spark plug gap, ensure connections are secure, inspect for fouling, check ignition system components.
Reduced Fuel Economy	Worn or fouled spark plugs, incorrect gap.	Inspect and replace worn plugs, ensure correct gap.
Difficulty Starting Engine	Weak spark, fouled plugs, battery issues.	Check spark plug condition, test battery and charging system.
Check Engine Light (CEL)	Misfire detected by vehicle's computer.	Scan for diagnostic trouble codes (DTCs) to pinpoint the exact issue.

If troubleshooting steps do not resolve the issue, it is advisable to consult a certified automotive technician.

WARRANTY & SUPPORT

ENA Spark Plugs come with a **12-Month Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any inquiries regarding your ENA product, please contact the seller or visit the official ENA store:

[Visit the ENA Store on Amazon](#)

Please retain your proof of purchase for warranty validation.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question