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› OEMTOOLS 25643 Fix-A-Thread Spark Plug Thread Repair Kit, Metric M14-1.25 User Manual

OEMTOOLS 25643

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Model: 25643

INTRODUCTION

The OEMTOOLS 25643 Fix-A-Thread Spark Plug Thread Repair Kit provides a reliable solution for repairing stripped or damaged spark plug threads in automotive engines. This kit is designed for M14-1.25 metric spark plug holes and includes a high-grade tap, thread inserts, and an installation tool to restore thread integrity permanently.

SAFETY INFORMATION

Always prioritize safety when working on vehicles. Failure to follow these safety guidelines may result in injury or damage to property.

- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the engine is cool before attempting any spark plug work.
- Disconnect the vehicle's battery to prevent accidental starting or electrical hazards.
- Work in a well-ventilated area.
- Keep the work area clean and free of debris.
- Refer to your vehicle's service manual for specific procedures and torque specifications.

PACKAGE CONTENTS

Verify that all components are present in your OEMTOOLS 25643 kit:

- 1 x M14-1.25 Spark Plug Thread Tap
- 3 x 18-8 Stainless Steel Thread Inserts (M14-1.25)
- 1 x Thread Insert Installation Tool



Image: All components of the OEMTOOLS 25643 Fix-A-Thread Spark Plug Thread Repair Kit, including the tap, three thread inserts, and the installation tool.

SETUP AND PREPARATION

1. **Identify Damaged Thread:** Locate the spark plug hole with the stripped or damaged threads.
2. **Clean Area:** Thoroughly clean the area around the spark plug hole to prevent debris from entering the engine cylinder. Use compressed air if available, ensuring safety precautions are followed.
3. **Protect Cylinder:** To prevent metal shavings from entering the cylinder during tapping, apply grease to the tap or insert a vacuum hose into the cylinder to extract debris. Alternatively, rotate the engine to bring the piston to Top Dead Center (TDC) on the compression stroke for the affected cylinder, then fill the cylinder with a small amount of grease to catch shavings.

OPERATING INSTRUCTIONS: THREAD REPAIR PROCEDURE

Follow these steps carefully to repair the spark plug threads:

Step 1: Tapping the Damaged Hole

1. **Prepare the Tap:** Apply a generous amount of cutting oil or grease to the M14-1.25 spark plug thread tap. This helps lubricate the cutting process and captures metal shavings.
2. **Insert the Tap:** Carefully insert the tap into the damaged spark plug hole. Ensure it is aligned straight with the existing hole.
3. **Cut New Threads:** Using a suitable tap wrench or a ratchet with an appropriate socket (not included), slowly turn the tap clockwise. Apply steady, even pressure. Turn the tap 1/4 to 1/2 turn, then back it off 1/4 turn to break chips and clear debris. Repeat this process until the tap has cut new threads to the desired depth. Do not force the tap.



Image: A hand using a ratchet and socket to turn the OEMTOOLS M14-1.25 tap into a spark plug hole, rethreading the damaged area.



Image: Detailed view of the OEMTOOLS M14-1.25 spark plug thread tap, showing its cutting edges and thread profile.

Step 2: Cleaning the Hole

4. **Remove Debris:** Carefully remove the tap. Use compressed air to blow out any remaining metal shavings from the newly tapped hole and the cylinder. If grease was used, remove it thoroughly. Ensure no foreign material remains in the cylinder.

Step 3: Installing the Thread Insert

5. **Prepare the Insert:** Select one of the 18-8 stainless steel thread inserts. Note the tang at the bottom of the insert.
6. **Load the Installation Tool:** Thread the chosen insert onto the installation tool. The tang of the insert should engage with the slot at the end of the installation tool.



Image: The OEMTOOLS thread insert installation tool with a thread insert screwed onto its end, ready for installation.



Image: A set of three OEMTOOLS 18-8 stainless steel thread inserts, showing their coiled design and tangs.

7. **Install the Insert:** Carefully thread the installation tool with the insert into the newly tapped spark plug hole. Turn

clockwise until the insert is seated approximately 1/4 to 1/2 turn below the top surface of the spark plug hole. Do not overtighten.



Image: A hand holding the OEMTOOLS thread insert installation tool, threading an insert into a spark plug hole in an engine block.



Image: The OEMTOOLS thread insert installation tool, showing its green handle and black tip designed to engage with thread inserts.

8. **Remove the Tang:** Once the insert is properly seated, pull the installation tool straight out. The tang at the bottom of the insert should break off cleanly. If the tang does not break off, use a small pick or magnet to retrieve it from the cylinder.
9. **Final Check:** Ensure the tang is removed and the insert is securely in place. The new spark plug can now be installed according to the vehicle manufacturer's specifications.

MAINTENANCE

Proper maintenance ensures the longevity and effectiveness of your OEMTOOLS kit:

- **Cleaning:** After each use, clean the tap and installation tool thoroughly to remove any metal shavings, oil, or grease. Use a wire brush for the tap threads if necessary.
- **Lubrication:** Apply a light coat of rust-preventative oil to the tap and installation tool before storage.
- **Storage:** Store the kit in its original packaging or a clean, dry toolbox to protect it from damage and corrosion.
- **Inspection:** Periodically inspect the tap for wear or damage to its cutting edges. A dull or damaged tap can lead to poor thread quality.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tap binds or is difficult to turn.	Lack of lubrication, forcing the tap, or accumulated chips.	Apply more cutting oil/grease. Turn the tap back 1/4 turn to break chips, then proceed. Do not force.
Insert does not thread smoothly.	Improper alignment, debris in the tapped hole, or damaged insert.	Ensure the installation tool and insert are aligned straight. Clean the hole thoroughly. Inspect the insert for damage before use.
Tang does not break off.	Insert not fully seated, or improper removal of the installation tool.	Ensure the insert is seated correctly. Pull the installation tool straight out. If the tang remains, use a small pick or magnet to retrieve it.

Problem	Possible Cause	Solution
New spark plug does not fit.	Incorrect insert size or improperly installed insert.	Verify the spark plug size matches the M14-1.25 specification. Re-check insert installation.

SPECIFICATIONS

- **Model Number:** 25643
- **Thread Size:** M14-1.25 Metric
- **Insert Material:** 18-8 Stainless Steel
- **Kit Components:** 1 x Tap, 3 x Inserts, 1 x Installation Tool
- **Product Dimensions:** 20.07 x 6.6 x 1.52 cm (7.9 x 2.6 x 0.6 inches)
- **Item Weight:** 158.76 g (5.6 oz)
- **Manufacturer:** Great Neck Saw

WARRANTY AND SUPPORT

For warranty information or technical support regarding your OEMTOOLS 25643 Fix-A-Thread Spark Plug Thread Repair Kit, please contact OEMTOOLS directly or refer to their official website. Keep your purchase receipt as proof of purchase. **Manufacturer Contact:** Refer to the packaging or OEMTOOLS official website for current contact details.

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