

Stens 785-521

Stens 785-521 Engine Tune-Up/Maintenance Kit Manual

Model: 785-521

INTRODUCTION

This manual provides instructions for the Stens 785-521 Engine Tune-Up/Maintenance Kit. This kit is designed to facilitate routine maintenance for Briggs & Stratton 5127A Intek 15.5, 17, and 17.5 HP engines, ensuring your equipment operates efficiently and reliably. Regular maintenance is crucial for extending the lifespan and maintaining the performance of your engine.

SAFETY INFORMATION

Always prioritize safety when performing engine maintenance. Failure to follow safety precautions can result in injury or damage to equipment.

- **Disconnect the spark plug wire:** Before performing any service, always disconnect the spark plug wire to prevent accidental engine starting.
- **Wear appropriate personal protective equipment (PPE):** This includes safety glasses and gloves.
- **Work in a well-ventilated area:** Ensure proper ventilation when handling fuel and oil.
- **Allow the engine to cool:** Never work on a hot engine to avoid burns.
- **Refer to your engine's specific manual:** This kit provides general guidance; always consult your engine manufacturer's manual for detailed, model-specific instructions and torque specifications.
- **Proper disposal:** Dispose of used oil, filters, and other components according to local environmental regulations.

KIT CONTENTS

The Stens 785-521 kit typically includes the following components necessary for a complete engine tune-up:

- Air Filter
- Oil Filter
- Spark Plug
- Engine Oil (SAE 30)

- Fuel Filter
- Fuel Line Clamps



Image: Complete Stens 785-521 Engine Tune-Up/Maintenance Kit components.

INSTALLATION AND REPLACEMENT GUIDE

Follow these general steps for replacing the components in your tune-up kit. Always refer to your specific engine's service manual for detailed instructions and torque specifications.

1. Air Filter Replacement



Image: Air filter included in the kit.

1. Locate the air filter housing, usually on the side of the engine.
2. Open the housing and carefully remove the old air filter. Note its orientation.
3. Clean any debris from inside the air filter housing.
4. Install the new air filter, ensuring it fits securely and in the correct orientation.
5. Close and secure the air filter housing.

2. Oil Filter Replacement



Image: Oil/Transmission filter from the kit.

1. Ensure the engine is cool. Place a drain pan beneath the oil drain plug.
2. Remove the oil drain plug and allow all old oil to drain completely.
3. Remove the old oil filter. Be prepared for residual oil to spill.
4. Apply a thin film of new engine oil to the rubber gasket of the new oil filter.
5. Install the new oil filter by hand, turning until the gasket contacts the engine block, then tighten an additional 1/2 to 3/4 turn (or as specified by your engine manual).
6. Replace the oil drain plug and tighten it securely.

3. Spark Plug Replacement





Image: Spark plug included in the kit.

1. Locate the spark plug and disconnect the spark plug wire.
2. Use a spark plug wrench to carefully remove the old spark plug.
3. Check the gap on the new spark plug using a feeler gauge, adjusting if necessary to match your engine's specifications.
4. Thread the new spark plug into the engine by hand to prevent cross-threading.

5. Tighten with a spark plug wrench to the manufacturer's recommended torque.
6. Reconnect the spark plug wire firmly.

4. Engine Oil Change



Image: Stens Shield 4-Cycle Engine Oil SAE 30.

1. After draining the old oil (as part of oil filter replacement), locate the oil fill cap/dipstick.
2. Carefully pour the new SAE 30 engine oil into the engine, using a funnel to prevent spills.
3. Add oil gradually, checking the dipstick frequently to ensure you do not overfill. Fill to the 'Full' mark on the dipstick.
4. Replace the oil fill cap/dipstick.

5. Fuel Filter Replacement



Image: Fuel filter included in the kit.

1. Locate the fuel filter in the fuel line between the fuel tank and the carburetor.
2. Use fuel line clamps (provided in the kit) to pinch off the fuel lines on both sides of the filter to prevent fuel leakage.
3. Remove the old fuel filter and discard it.
4. Install the new fuel filter, ensuring the arrow on the filter points in the direction of fuel flow (towards the carburetor).
5. Secure the fuel lines to the new filter with the new fuel line clamps.
6. Remove the pinching clamps from the fuel lines.

6. Fuel Line Clamps



Image: Fuel line clamps.

The included fuel line clamps are used to secure the fuel lines to the fuel filter, preventing leaks and ensuring a tight connection. Always ensure clamps are properly positioned and tightened after replacing the fuel filter.

RECOMMENDED MAINTENANCE SCHEDULE

Adhering to a regular maintenance schedule will help prolong the life of your engine and ensure optimal performance. This is a general guide; consult your engine's manual for specific intervals.

- **Every 25 Hours or Annually (whichever comes first):**
 - Change engine oil and oil filter.
 - Replace air filter.
 - Replace spark plug.
 - Replace fuel filter.
- **Before Each Use:**
 - Check engine oil level.
 - Inspect air filter for excessive dirt.

TROUBLESHOOTING COMMON ISSUES

If you encounter issues after performing maintenance, consider these common problems and solutions related to the kit components:

Problem	Possible Cause	Solution
Engine won't start or runs rough	Clogged fuel filter, fouled spark plug, incorrect spark plug gap, low or incorrect oil.	Check fuel filter for proper installation and flow. Inspect spark plug for damage or incorrect gap. Verify oil level and type.
Engine lacks power	Dirty air filter, incorrect spark plug gap.	Ensure air filter is clean and properly installed. Check spark plug gap.
Oil leak after change	Oil filter not tightened correctly, drain plug loose, old gasket on drain plug.	Check oil filter tightness. Ensure drain plug is secure. Replace drain plug gasket if necessary.
Excessive smoke from exhaust	Overfilled with oil, incorrect oil type.	Check oil level and drain excess if overfilled. Ensure correct SAE 30 oil is used.

PRODUCT SPECIFICATIONS

- **Model Number:** 785-521
- **Compatibility:** Briggs & Stratton 5127A Intek 15.5, 17, 17.5 HP engines
- **Product Dimensions:** 9 x 7 x 12 inches
- **Item Weight:** 3 pounds
- **Manufacturer:** Stens
- **ASIN:** B004HS8JPO

OFFICIAL PRODUCT VIDEO

Watch the official Stens video for an overview of maintenance kits and their benefits.

Your browser does not support the video tag.

Video: Stens Maintenance Kits overview. This video highlights the various types of maintenance kits offered by Stens, including those for two-cycle, four-cycle, hydraulic, and deck maintenance, emphasizing the convenience and benefits of all-in-one packages for equipment upkeep.

WARRANTY AND SUPPORT

For specific warranty information regarding your Stens 785-521 Engine Tune-Up/Maintenance Kit, please refer to the official Stens website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims or support inquiries. Stens is committed to providing quality aftermarket replacement parts and customer assistance.