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echosari ECH-KIT-1_Z3

echosari OEM Mantis Service Kit 7222 (SV-4B Engine) Instruction Manual

Model: ECH-KIT-1_Z3

Introduction

This instruction manual provides detailed guidance for the installation and maintenance of the echosari OEM Mantis Service Kit 7222. This kit is specifically designed for Mantis tillers equipped with an SV-4B engine, ensuring optimal performance and longevity of your equipment. The kit includes an air filter, spark plug, and a complete fuel line assembly with a filter and primer bulb.

Safety Information

Always prioritize safety when performing maintenance on power equipment. Read and understand all safety warnings in your Mantis tiller's owner's manual before proceeding. Disconnect the spark plug wire before working on the engine to prevent accidental starting. Wear appropriate personal protective equipment, such as gloves and eye protection. Ensure the engine is cool before handling components.

Kit Contents

The echosari OEM Mantis Service Kit 7222 includes the following components:

- **Fuel Line Kit:** Includes fuel lines, an in-tank fuel filter, and a primer bulb.
- **Air Filter:** A replacement air filter element.
- **Spark Plug:** A new spark plug for engine ignition.

Installation Guide

Follow these steps for proper installation of each component. Refer to your Mantis tiller's service manual for specific engine diagrams and additional instructions.

1. Fuel Line Kit Installation

The fuel line kit includes the necessary lines, an in-tank fuel filter, and a primer bulb for your Mantis SV-4B engine. Carefully remove the old fuel lines and components, noting their routing before replacement.



Image: Fuel line kit showing overall length of 7 3/4 inches, with individual line lengths of 4 3/4 inches and 5 3/4 inches. This helps in verifying the correct replacement part.



Image: Close-up of the fuel line kit, indicating a plug diameter of 13/16 inch and a hose diameter of 1/8 inch. These measurements are crucial for proper fitment into the fuel tank.



Image: Detail of the in-tank fuel filter attached to one of the fuel lines. This filter prevents debris from entering the carburetor.



Image: The primer bulb component of the fuel line kit. The primer bulb helps to draw fuel into the carburetor for easier starting.

1. Drain the fuel tank completely.
2. Carefully remove the fuel tank cap and locate the existing fuel lines and grommet.
3. Gently pull out the old fuel lines and grommet assembly from the fuel tank.
4. Install the new fuel line kit, ensuring the grommet seats properly in the fuel tank opening to prevent leaks.
5. Connect the fuel lines to the carburetor and primer bulb as per the original configuration.

2. Air Filter Installation

A clean air filter is essential for proper engine combustion and to prevent dirt from entering the engine.



Image: The new air filter element, typically a felt or foam material, designed to fit the Mantis SV-4B engine's air filter housing.

1. Locate the air filter housing on your Mantis tiller engine.
2. Remove the cover of the air filter housing.
3. Take out the old, dirty air filter element.
4. Insert the new air filter element into the housing, ensuring it fits snugly.
5. Replace the air filter housing cover securely.

3. Spark Plug Installation

A new spark plug ensures reliable ignition and efficient engine operation.



Image: The new spark plug, featuring a ceramic insulator and metal threads, ready for installation into the engine cylinder head.

1. Locate the spark plug on the engine cylinder head.
2. Carefully remove the spark plug wire.
3. Using a spark plug wrench, unscrew and remove the old spark plug.
4. Inspect the new spark plug to ensure the gap is set correctly according to your engine's specifications (refer to your tiller's manual).
5. Thread the new spark plug into the cylinder head by hand to avoid cross-threading.
6. Tighten the spark plug with a wrench, typically about 1/2 to 3/4 turn after it seats, or to the torque specified in your tiller's manual. Do not overtighten.
7. Reconnect the spark plug wire firmly.

Post-Installation Check

After installing all components, perform the following checks:

- Ensure all connections are secure and there are no fuel leaks.
- Check that the air filter housing cover is properly latched.
- Verify the spark plug wire is fully seated on the spark plug.
- Refill the fuel tank with the correct fuel mixture (if applicable for 2-stroke engines).
- Prime the engine using the primer bulb until fuel is visible.
- Attempt to start the engine and listen for smooth operation.

Maintenance Schedule

Regular maintenance is crucial for the longevity and performance of your Mantis tiller. The components in this service kit should be replaced periodically based on usage and operating conditions. Consult your Mantis tiller's owner's manual for specific

recommended service intervals. General guidelines include:

- **Air Filter:** Inspect every 25 hours of operation or annually, replace if dirty or damaged.
- **Spark Plug:** Replace every 100 hours of operation or annually.
- **Fuel Filter & Lines:** Inspect annually for cracks, hardening, or clogging. Replace if any issues are found or every 2-3 years as preventative maintenance.

Troubleshooting

If your Mantis tiller is experiencing issues, the components in this service kit often address common problems:

- **Engine Not Starting or Hard to Start:** A dirty spark plug, clogged fuel filter, or cracked fuel lines can prevent proper fuel delivery or ignition. Replacing these components can resolve such issues.
- **Engine Runs Rough or Lacks Power:** A restricted air filter can starve the engine of air, leading to poor performance. A fouled spark plug or inconsistent fuel supply from old lines can also cause rough running.
- **Fuel Leaks:** Old, brittle, or cracked fuel lines are a common cause of fuel leaks. Replacing the entire fuel line kit will address this.

If issues persist after replacing these components, consult a qualified service technician or your Mantis tiller's owner's manual for further diagnostics.

Specifications

Brand	echosari
Product Grade	Replacement Part
Model Number	ECH-KIT-1_Z3
GTIN / UPC	688957792287
Compatible Engine	Mantis SV-4B Engine
Outer Material (Fuel Line)	Stainless Steel (filter component)

Warranty Information

Specific warranty details for the echosari OEM Mantis Service Kit 7222 are not provided in this manual. For information regarding product warranty, please refer to the product packaging or contact the seller or manufacturer directly.

Customer Support

If you have questions about the installation, compatibility, or performance of this service kit, please contact the seller or echosari customer support. When contacting support, please have your product model number (ECH-KIT-1_Z3) and purchase details available.

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