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FIXED UP FINDS 524

Instruction Manual: FIXED UP FINDS Carburetor for John Deere 524 Snow Blowers with Tecumseh Engine

Model: 524

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your FIXED UP FINDS replacement carburetor for John Deere 524 Snow Blowers equipped with a Tecumseh engine. Please read these instructions carefully before proceeding to ensure safe and efficient use of your snow blower.

2. PRODUCT OVERVIEW

The FIXED UP FINDS carburetor kit is designed to restore optimal performance and fuel efficiency to your John Deere 524 snow blower. It includes the main carburetor unit and essential accessories for a complete replacement.



Figure 1: Complete Carburetor Kit. This image displays the complete carburetor kit, including the main carburetor unit, fuel filter, fuel line, primer bulb, spark plug, and gaskets.

For a visual inspection of the carburetor unit, please refer to the video below:

Your browser does not support the video tag.

Video 1: Carburetor Unit Overview. This video provides a detailed 360-degree view of the carburetor, highlighting its construction and key features.

3. INSTALLATION

Safety First:

- Ensure the snow blower engine is cool and disconnected from the spark plug wire to prevent accidental starting.
- Drain the fuel tank before beginning the installation process.
- Wear appropriate personal protective equipment, including gloves and eye protection.

This carburetor is designed for easy, direct replacement (plug and play) on compatible John Deere 524 snow blowers with Tecumseh engines. No complex modifications are typically required.

Installation Steps:

1. **Remove Air Filter Assembly:** Carefully detach the air filter housing and any associated components to gain access to the old carburetor.
2. **Disconnect Fuel Line:** Locate and disconnect the fuel line from the old carburetor. Be prepared for residual fuel to leak.
3. **Disconnect Linkages:** Detach any throttle and choke linkages connected to the old carburetor. Note

their positions for reassembly.

4. **Remove Old Carburetor:** Unscrew the mounting bolts or nuts securing the old carburetor to the engine manifold. Carefully remove the old carburetor and gasket.
5. **Clean Mounting Surface:** Ensure the engine manifold mounting surface is clean and free of old gasket material.
6. **Install New Gasket:** Place the new gasket (provided in the kit) onto the manifold.
7. **Mount New Carburetor:** Position the new FIXED UP FINDS carburetor onto the gasket and secure it with the mounting bolts/nuts. Tighten them evenly to prevent air leaks.
8. **Reconnect Linkages:** Reattach the throttle and choke linkages to the new carburetor in their original positions.
9. **Connect Fuel Line:** Attach the new fuel line (if replacing) and fuel filter to the carburetor and fuel tank. Secure with clamps.
10. **Install Primer Bulb:** If replacing, install the new primer bulb.
11. **Replace Spark Plug:** If replacing, install the new spark plug.
12. **Reassemble Air Filter:** Reinstall the air filter assembly.

After installation, double-check all connections for tightness and ensure no fuel leaks are present.

4. OPERATION

Once the new carburetor is installed, follow your snow blower's original operating instructions for starting and running the engine. The new carburetor is designed to provide optimal fuel-air mixture for efficient engine performance.

- **Fueling:** Use fresh, clean gasoline as recommended by your snow blower's manufacturer.
- **Starting:** Engage the choke (if applicable to your snow blower's control system), prime the engine a few times using the primer bulb, and then pull the starter cord or use the electric start.
- **Warm-up:** Allow the engine to warm up for a few minutes before engaging the snow clearing mechanism.

5. MAINTENANCE

Regular maintenance of your carburetor and fuel system is crucial for longevity and reliable performance.

- **Fuel Quality:** Always use fresh, high-quality fuel. Stale fuel can cause carburetor clogging. Consider using a fuel stabilizer, especially during storage.
- **Fuel Filter:** Inspect and replace the fuel filter annually or more frequently if operating in dusty conditions or with questionable fuel. A clogged fuel filter restricts fuel flow.
- **Spark Plug:** Check and replace the spark plug as part of your regular engine maintenance. A fouled or worn spark plug can affect starting and engine performance.
- **Storage:** Before long-term storage, run the engine until it runs out of fuel, or drain the fuel tank and carburetor bowl to prevent fuel degradation and gumming.

6. TROUBLESHOOTING

If you encounter issues after installing the new carburetor, consider the following common troubleshooting

steps:

Problem	Possible Cause	Solution
Engine won't start	No fuel, fouled spark plug, incorrect choke setting, air leak.	Check fuel level, replace spark plug, adjust choke, inspect gaskets for leaks.
Engine runs rough/stalls	Clogged fuel filter, dirty carburetor, air leak, old fuel.	Replace fuel filter, clean carburetor (if necessary), check gaskets, use fresh fuel.
Fuel leaks	Loose connections, damaged fuel line/gasket, float bowl issue.	Tighten clamps, replace damaged components, inspect float and needle valve.

If problems persist, consult a qualified service technician.

7. SPECIFICATIONS

This replacement carburetor is designed to meet or exceed the original equipment specifications for John Deere 524 Snow Blowers with Tecumseh engines.

- **Application:** John Deere 524 Snow Blowers with Tecumseh Engine
- **Fuel Inlet Diameter:** Approximately 7.5 mm
- **Air Intake Diameter:** Approximately 20 mm
- **Mounting Hole Diameter:** Approximately 5 mm
- **Throttle Bore Diameter:** Approximately 22 mm
- **Mounting Bolt Spacing:** Approximately 34 mm
- **Overall Carburetor Body Height:** Approximately 45 mm

Note: Dimensions are approximate and for reference only. Always verify compatibility with your specific model.

8. WARRANTY AND SUPPORT

FIXED UP FINDS provides a confident return policy and a 90-day money-back guarantee. Additionally, this product comes with a lifetime warranty against manufacturing defects.

For further assistance or warranty claims, please contact FIXED UP FINDS customer support through your purchase platform.