



Manuals.plus /

› 20 SECOND SOAP /

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Model: 632763

Introduction Safety Compatibility Installation Operating
Principle Maintenance Troubleshooting Specifications Warranty & Support

1. INTRODUCTION

This manual provides instructions for the installation, maintenance, and troubleshooting of the 20 SECOND SOAP Tecumseh Throttle Return Spring, model 632763. This component is designed to restore proper throttle function in compatible Tecumseh engines by ensuring the throttle returns to its idle position reliably.

2. SAFETY INFORMATION

WARNING: Always prioritize safety when working with engine components. Failure to follow safety instructions can result in serious injury or damage to equipment.

- Ensure the engine is completely off and cooled down before beginning any work.
- Disconnect the spark plug wire to prevent accidental starting.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Refer to your engine's specific service manual for additional safety precautions and detailed disassembly/assembly procedures.
- Keep children and pets away from the work area.

3. COMPATIBILITY

This throttle return spring is a direct replacement for Tecumseh part numbers:

- 632763
- 632767

- 640135
- 640135A
- 640144
- 640356

Verify your engine's required part number before installation to ensure proper fit and function.

4. INSTALLATION INSTRUCTIONS

Follow these steps to replace the throttle return spring. These are general guidelines; specific engine configurations may vary.

1. **Prepare the Engine:** Ensure the engine is off, cool, and the spark plug wire is disconnected.
2. **Locate the Old Spring:** Identify the existing throttle return spring on the carburetor linkage. It typically connects the throttle lever to a fixed point on the engine or carburetor body.
3. **Remove the Old Spring:** Carefully unhook the old spring using needle-nose pliers or a spring removal tool. Note its orientation and how it was attached.
4. **Inspect the Area:** Check the throttle linkage for any signs of wear, damage, or excessive friction that might have contributed to the old spring's failure. Clean any debris.
5. **Install the New Spring:** Attach one end of the new 20 SECOND SOAP Tecumseh Throttle Return Spring to its designated anchor point. Then, using pliers, carefully stretch and hook the other end to the throttle lever. Ensure the spring is securely seated and does not interfere with other moving parts.
6. **Test Throttle Movement:** Manually move the throttle lever through its full range of motion. The spring should provide consistent tension, returning the throttle to the idle position smoothly and completely when released.
7. **Reconnect and Test:** Reconnect the spark plug wire. Start the engine (if safe to do so) and observe the throttle response. Ensure the engine idles correctly and the throttle operates smoothly.



Image 1: The 20 SECOND SOAP Tecumseh Throttle Return Spring. This image shows the coiled metal spring with hooks at each end, designed to provide tension for the throttle mechanism.

5. OPERATING PRINCIPLE

The throttle return spring is a critical component in the engine's speed control system. Its primary function is to provide constant tension on the throttle linkage, ensuring that the throttle plate returns to its closed (idle) position when the throttle control is released. This prevents the engine from over-revving and maintains stable idle speed. A properly functioning spring contributes to safe and predictable engine operation.

6. MAINTENANCE

Regular inspection of the throttle return spring can prevent future issues.

- **Visual Inspection:** Periodically check the spring for signs of rust, corrosion, stretching, or breakage. Ensure it is securely attached at both ends.
- **Tension Check:** Manually operate the throttle linkage to feel the spring's tension. It should offer firm, consistent resistance and return the throttle smoothly. If it feels weak or sluggish, replacement may be necessary.
- **Cleaning:** Keep the spring and surrounding linkage free from dirt, debris, and excessive grease, which can impede its movement.

7. TROUBLESHOOTING

If you experience issues with your engine's throttle, consider the following:

Symptom	Possible Cause	Solution
Throttle sticks open or does not return to idle.	Worn, stretched, or broken throttle return spring.	Replace the throttle return spring.
Engine idles too high.	Weak or improperly installed spring; throttle linkage binding.	Inspect and replace spring if weak. Check and lubricate throttle linkage.
Inconsistent throttle response.	Spring not providing consistent tension; linkage issues.	Ensure spring is correctly installed and not binding. Replace if necessary.

If troubleshooting steps do not resolve the issue, consult a qualified service technician or refer to your engine's comprehensive service manual.

8. SPECIFICATIONS

- **Part Type:** Throttle Return Spring
- **Manufacturer:** 20 SECOND SOAP
- **Model Number:** 632763
- **Compatible Tecumseh Part Numbers:** 632763, 632767, 640135, 640135A, 640144, 640356
- **Material:** Durable spring steel (typical for such components)

9. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your 20 SECOND SOAP Tecumseh

Throttle Return Spring, please refer to the retailer's return policy or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.



Image 2: The 20 SECOND SOAP brand logo.