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RYOBI 310711138

RYOBI Homelite 310711138 4-Gallon Fuel Tank Instruction Manual

Genuine OEM Replacement Part

1. Introduction and Overview

This manual provides essential instructions for the safe and effective use, installation, and maintenance of your RYOBI Homelite 310711138 Genuine 4-Gallon Fuel Tank with Vent. This fuel tank is a direct OEM replacement part designed for various outdoor power equipment, including models from Homelite, Ryobi, Ridgid, Troy-Bilt, Echo, Powerstroke, Workforce, and Blackmax. Please read this manual thoroughly before installation or operation to ensure proper function and safety.

2. Safety Information

Handling fuel and fuel tanks requires extreme caution. Failure to follow these safety guidelines can result in serious injury, fire, or explosion.

- **Fuel Type:** This tank is designed for gasoline. Do not use it for other liquids.
- **Ventilation:** Always work in a well-ventilated area when handling fuel.
- **Ignition Sources:** Keep fuel and the fuel tank away from open flames, sparks, pilot lights, and any other ignition sources. Do not smoke while handling fuel.
- **Static Electricity:** Static electricity can ignite fuel vapors. Use only approved containers and methods for transferring fuel.
- **Spills:** Clean up fuel spills immediately. Dispose of fuel-soaked materials properly.
- **Storage:** Store fuel in approved containers in a cool, well-ventilated area, away from living spaces and ignition sources.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. Product Description and Components

The RYOBI Homelite 310711138 fuel tank is a genuine OEM replacement part with a 4-gallon capacity, designed to store and supply gasoline to compatible outdoor power equipment. It features an integrated vent to ensure proper fuel flow and prevent vacuum lock.



Figure 1: RYOBI Homelite 310711138 4-Gallon Fuel Tank. This image shows the top view of the red fuel tank, highlighting the main fuel filler opening with its internal filter and the smaller vent opening located near the top left corner. The tank has a rectangular shape with rounded edges and ribbed detailing on the surface.

Key Components:

- **Fuel Tank Body:** The main reservoir for gasoline.
- **Fuel Cap Opening:** The port where fuel is added and the fuel cap is secured.
- **Vent:** A small opening or mechanism that allows air to enter the tank as fuel is consumed, preventing a vacuum and ensuring smooth fuel delivery.

4. Setup and Installation

Installation of this fuel tank typically involves replacing an existing tank on compatible equipment. It is recommended that installation be performed by a qualified technician if you are unfamiliar with the process.

1. **Preparation:** Ensure the equipment is turned off, cooled down, and disconnected from any power source (e.g., spark plug wire removed). Drain any remaining fuel from the old tank into an approved container.
2. **Removal of Old Tank:** Carefully disconnect all fuel lines, sensors, and mounting hardware attached to the old fuel tank. Note the routing of fuel lines for reinstallation.
3. **Installation of New Tank:** Position the new RYOBI Homelite 310711138 fuel tank in the designated location. Secure it using the appropriate mounting hardware.
4. **Connect Fuel Lines:** Reconnect all fuel lines to the new tank, ensuring they are securely fastened and free from kinks or damage. Replace any worn or cracked fuel lines if necessary.
5. **Leak Check:** After installation, add a small amount of fuel to the tank and visually inspect for any leaks around the fuel lines and tank seams. Address any leaks immediately before operating the equipment.
6. **Final Check:** Ensure all components are properly secured and there are no loose parts.

5. Operating Instructions

Once the fuel tank is installed, follow these guidelines for operation:

- **Filling the Tank:**
  - Ensure the equipment is off and cooled.
  - Remove the fuel cap slowly to release any pressure.
  - Fill the tank with fresh, clean gasoline (as specified by your equipment manufacturer) using a funnel to prevent spills. Do not overfill; leave space for fuel expansion.
  - Securely replace the fuel cap.

- **Vent Function:** The integrated vent allows air into the tank as fuel is consumed, preventing a vacuum that could starve the engine of fuel. Ensure the vent is clear of obstructions.
- **Fuel Level Monitoring:** Regularly check the fuel level to avoid running out during operation.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your fuel tank.

- **Inspection:** Periodically inspect the fuel tank for cracks, leaks, or damage. Check fuel lines for signs of wear, cracking, or loose connections.
- **Cleaning:** Keep the exterior of the fuel tank clean. Avoid using harsh chemicals that could damage the tank material.
- **Vent Check:** Ensure the vent is free from debris or blockages. A clogged vent can lead to fuel delivery issues.
- **Fuel Cap:** Ensure the fuel cap seals properly to prevent leaks and evaporation. Replace if damaged.
- **Winter Storage:** If storing equipment for an extended period, it is advisable to drain the fuel tank or use a fuel stabilizer to prevent fuel degradation and gumming.

7. Troubleshooting

If you encounter issues related to the fuel tank, consider the following:

- **Fuel Leaks:**
  - Check all fuel line connections for tightness.
  - Inspect the fuel tank body for cracks or damage.
  - Ensure the fuel cap is securely tightened and its seal is intact.
- **Engine Not Getting Fuel (despite fuel in tank):**
  - Check if the fuel lines are kinked or blocked.
  - Inspect the fuel filter (if applicable to your equipment) for clogging.
  - Ensure the tank vent is not blocked, which can create a vacuum preventing fuel flow.
- **Difficulty Filling Tank:**
  - Ensure the vent is clear.
  - Avoid rapid filling, which can cause air pockets.

If problems persist, consult your equipment's specific service manual or contact a qualified service technician.

8. Specifications

Feature	Detail
Part Number	310711138
Brand	RYOBI / Homelite
Capacity	4 Gallons
Fuel Type	Gasoline
Fit Type	Universal (Replacement for various models)

Feature	Detail
UPC	607178410442
Manufacturer	Homelite Ryobi TTI

9. Warranty and Support

As a genuine OEM part, this fuel tank is manufactured to specific quality standards. For warranty information, please refer to the original equipment manufacturer's documentation or contact Homelite Ryobi TTI directly. For technical support or further assistance, please consult the service manual for the specific equipment on which this fuel tank is installed, or contact a certified service center.

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