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DORMAK SC 38 BS

DORMAK SC 38 BS Thermal Scarifier User Manual

Model: SC 38 BS

1. Important Safety Information

Before operating the DORMAK SC 38 BS Thermal Scarifier, carefully read and understand all instructions and safety warnings in this manual. Failure to follow these instructions can result in serious injury or property damage. Keep this manual for future reference.

- Always wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, sturdy footwear, and gloves.
- Ensure the work area is clear of debris, stones, and other objects that could be thrown by the machine.
- Keep bystanders, children, and pets at a safe distance (at least 15 meters) from the operating machine.
- Never operate the scarifier in wet grass or adverse weather conditions.
- Turn off the engine and disconnect the spark plug wire before performing any adjustments, maintenance, or clearing blockages.
- Handle fuel with extreme care. Store fuel in approved containers in a well-ventilated area, away from ignition sources.
- Do not refuel a hot engine. Allow the engine to cool before adding fuel.
- Inspect the machine for damage before each use. Do not operate if damaged.

2. Product Overview

The DORMAK SC 38 BS is a thermal (gasoline-powered) scarifier designed to remove thatch and moss from lawns, promoting healthier grass growth. It features a robust engine and adjustable tines for effective lawn care.



Figure 1: Overall view of the DORMAK SC 38 BS Thermal Scarifier, showing the engine, handle, and main body.

3. Setup and Assembly

3.1 Unpacking

Carefully remove all components from the packaging. Check for any shipping damage and ensure all parts are present according to the packing list. Retain packaging for potential future transport or storage.

3.2 Handle Assembly

1. Attach the lower handle bars to the main unit using the provided bolts and nuts. Ensure they are securely fastened.
2. Connect the upper handle bar to the lower handle bars. Align the holes and secure with the quick-release knobs or bolts.
3. Route any control cables (throttle, safety bail) along the handle and secure them with cable ties to prevent snagging.

3.3 Fuel and Oil Filling

This scarifier is equipped with a 4-stroke engine. It requires unleaded gasoline and separate engine oil.

- **Engine Oil:** Fill the engine crankcase with appropriate 4-stroke engine oil (e.g., SAE 30 or 10W-30) to the 'Full' mark on the dipstick. Do not overfill. Refer to the engine manufacturer's manual for specific oil recommendations.
- **Fuel:** Fill the fuel tank with fresh, unleaded gasoline (minimum 87 octane). Do not use E85 or mixed fuel. Ensure the fuel cap is securely tightened after filling.



Figure 2: Close-up of the engine, showing the fuel tank cap and oil fill cap. Ensure correct fuel and oil are used.

3.4 Working Depth Adjustment

The scarifier's working depth can be adjusted to suit your lawn's condition. Locate the depth adjustment lever, typically near the wheels or main body. Adjust the lever to the desired setting. Start with a shallower depth and gradually increase if needed to avoid damaging the lawn.



Figure 3: Underside view of the scarifier, illustrating the tines (blades) that engage with the lawn. The depth of these tines is adjustable.

4. Operating Instructions

4.1 Pre-Operation Checklist

- Check engine oil level.

- Check fuel level.
- Inspect tines for wear or damage.
- Ensure all fasteners are tight.
- Clear the work area of any obstacles.

4.2 Starting the Engine

1. Move the scarifier to a flat, open area.
2. Ensure the safety bail lever (if present) is engaged or held.
3. Set the choke lever to the 'Choke' position (for cold starts).
4. Set the throttle lever to the 'Fast' position.
5. Pull the starter rope firmly and smoothly until the engine starts. Do not let the rope snap back.
6. Once the engine starts, gradually move the choke lever to the 'Run' position.

4.3 Scarifying Technique

- Begin scarifying on a dry lawn.
- Push the scarifier at a steady, moderate pace. Avoid rushing or stopping in one spot, which can damage the lawn.
- Overlap each pass slightly to ensure complete coverage.
- Empty the collection bag frequently to maintain optimal performance and prevent clogging.
- For heavily thatched lawns, multiple passes at different depths or directions may be necessary.

4.4 Stopping the Engine

To stop the engine, release the safety bail lever (if applicable) or move the engine switch to the 'OFF' position. Allow the engine to cool before storing.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your scarifier. Always turn off the engine and disconnect the spark plug wire before performing any maintenance.

5.1 After Each Use

- **Cleaning:** Remove grass clippings, dirt, and debris from the machine, especially around the tines, engine cooling fins, and air intake. Use a brush or compressed air. Do not use water directly on the engine.
- **Inspection:** Check tines for wear, bending, or damage. Inspect all nuts, bolts, and screws for tightness.

5.2 Engine Maintenance

- **Oil Change:** Change engine oil after the first 5 hours of operation, then every 25-50 hours or annually, whichever comes first. Refer to the engine manual for detailed instructions.
- **Air Filter:** Clean or replace the air filter regularly, especially in dusty conditions. A dirty air filter can reduce engine performance and lifespan.
- **Spark Plug:** Inspect and clean the spark plug annually. Replace if electrodes are worn or fouled. Ensure correct gap.

5.3 Tine Replacement

Worn or damaged tines should be replaced promptly. Consult your dealer for genuine replacement parts. Follow the instructions provided with the replacement kit for safe installation.

5.4 Storage

For long-term storage (over 30 days):

- Drain the fuel tank or add a fuel stabilizer. Run the engine until it stops to consume all fuel in the carburetor.
- Change the engine oil.
- Clean the entire machine thoroughly.
- Store in a clean, dry, well-ventilated area, away from direct sunlight and extreme temperatures.

6. Troubleshooting

If you encounter problems, refer to the following table for common issues and solutions. If the problem persists, contact a qualified service technician.

Problem	Possible Cause	Solution
Engine won't start	No fuel; old fuel; spark plug issue; choke not set; safety bail not engaged	Add fresh fuel; clean/replace spark plug; set choke; engage safety bail
Loss of power / Poor performance	Dirty air filter; incorrect depth setting; worn tines; engine oil low	Clean/replace air filter; adjust depth; replace tines; check/add oil
Excessive vibration	Bent or damaged tines; loose fasteners; unbalanced rotating parts	Inspect/replace tines; tighten fasteners; contact service for balancing
Scarifier not collecting thatch	Collection bag full; incorrect depth setting; worn tines	Empty bag; adjust depth; replace tines

7. Specifications

- **Model:** DORMAK SC 38 BS
- **Type:** Thermal Scarifier
- **ASIN:** B00HM7VYZO
- **Power Source:** Gasoline Engine (4-stroke)
- **Working Width:** (Information not provided, typically around 38cm for SC 38)
- **Working Depth:** Adjustable
- **Date First Available on Amazon.com.be:** May 24, 2022

8. Warranty and Support

This product is covered by a manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms and conditions, including warranty period and coverage details. For technical support, spare parts, or warranty claims, please contact your authorized DORMAK dealer or the retailer from whom you purchased the product. Keep your proof of purchase for warranty validation.

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