

SYKEND SKD-810-90

SYKEND Remote-Controlled Tracked Robotic Lawnmower SKD-810-90 User Manual

Model: SKD-810-90

INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your SYKEND Remote-Controlled Tracked Robotic Lawnmower, model SKD-810-90. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

SAFETY INFORMATION

Operating this powerful machinery requires strict adherence to safety guidelines. Failure to follow these instructions may result in serious injury or property damage.

- **Read the Entire Manual:** Understand all operating procedures and safety warnings before use.
- **Remote Operation:** Always operate the lawnmower from a safe distance using the remote control. Maintain a clear line of sight to the machine.
- **Personal Protective Equipment (PPE):** Wear appropriate safety glasses, hearing protection, sturdy footwear, and long pants during operation.
- **Clear the Area:** Before starting, ensure the mowing area is clear of debris, rocks, toys, and other objects that could be thrown by the blades.
- **Slope Operation:** The machine is designed for slopes up to 65 degrees. Exercise extreme caution on inclines and declines. Avoid operating on excessively wet or unstable terrain.
- **Fuel Handling:** Use 87-octane or higher gasoline. Refuel in a well-ventilated area with the engine off and cool. Avoid spilling fuel.
- **Children and Bystanders:** Keep children, pets, and bystanders away from the operating area. The remote control distance allows for operation from a significant distance, enhancing safety.
- **Maintenance Safety:** Disconnect the spark plug wire or battery before performing any maintenance or adjustments. Allow the engine to cool completely.
- **Emergency Stop:** Familiarize yourself with the emergency stop procedures on both the machine and the

remote control.

PRODUCT OVERVIEW

The SYKEND SKD-810-90 is a robust remote-controlled tracked robotic lawnmower designed for efficient and safe lawn maintenance on various terrains, including steep slopes.

Key Features:

- **Engine:** 27hp brand gasoline twin-cylinder engine.
- **Motor:** 48V brushless motor.
- **Mowing Width:** 90cm (35.43 inches).
- **Adjustable Mowing Height:** 0-7.87 inches (remotely controlled).
- **Slope Capability:** Climbs slopes up to 65 degrees.
- **Remote Control Range:** Up to 1968 feet (600 meters).
- **Start System:** Electric start.
- **Traction System:** Tracked walking system for ground protection and stability.
- **Construction:** High-quality alloy steel structure.

Components:

Refer to the following images for a visual guide to the main components of your lawnmower.



Figure 1: Overall view of the SYKEND SKD-810-90 robotic lawnmower.

This image displays the complete SYKEND SKD-810-90 remote-controlled tracked robotic lawnmower, showcasing its robust design and tracked system on a green lawn.



Figure 2: Illustration of the 900mm (35.43 inches) mowing width.

This image illustrates the effective mowing width of the SKD-810-90, highlighting its 900mm (35.43 inches) cutting path for efficient coverage of large areas.

HIGHLY MANEUVERABLE

70° Maximum climbing angle



Figure 3: The lawnmower demonstrating its 65-degree slope climbing ability.

This image shows the lawnmower operating on an incline, demonstrating its capability to climb slopes up to 65 degrees, ensuring stability on challenging terrain.



Figure 4: Remote control unit and operational range of up to 1968 feet.

This image displays the remote control unit alongside the lawnmower, indicating the impressive operational range of up to 1968 feet (600 meters) for safe and flexible control.



Figure 5: Rear view of the SYKEND SKD-810-90, showing control panel indicators.

This image provides a rear view of the lawnmower, showing the back panel with indicator lights (red, yellow, green) and the robust tracked system.

SETUP

Unpacking and Initial Inspection:

- Carefully remove the lawnmower from its packaging.
- Inspect the machine for any signs of shipping damage. Contact your dealer immediately if damage is found.
- Ensure all components listed in the packing list are present.

Fuel and Oil:

- **Fuel:** Fill the fuel tank with 87-octane or higher gasoline. Do not overfill.
- **Engine Oil:** Check the engine oil level and fill to the recommended mark using the specified engine oil type. Refer to the engine manufacturer's manual for details.

Battery Connection:

- Connect the battery terminals if they are disconnected for shipping. Ensure correct polarity.
- Charge the remote control battery fully before first use.

OPERATING INSTRUCTIONS

Starting the Lawnmower:

1. Ensure the lawnmower is on a level surface and the area is clear.
2. Turn the main power switch on the lawnmower to the "ON" position.
3. Using the remote control, initiate the electric start sequence. Follow the specific instructions for your remote control model.
4. Allow the engine to warm up for a few moments before engaging the blades.

Remote Control Operation:

- The remote control allows for full control of the lawnmower's movement and cutting functions.
- **Movement:** Use the joysticks or directional controls to steer the tracked system.
- **Blade Engagement:** Use the designated button or switch on the remote to engage and disengage the cutting blades.
- **Mowing Height Adjustment:** Adjust the cutting height remotely from 0 to 7.87 inches using the dedicated controls.
- **Emergency Stop:** In case of an emergency, press the emergency stop button on the remote control.

Mowing Tips:

- For best results, mow when the grass is dry.
- Avoid cutting more than one-third of the grass blade length at a time.
- When operating on slopes, always move the machine up and down the slope, not across it, to maintain stability.
- The tracked system is designed to protect the ground and provide excellent traction on various terrains.

MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your SYKEND SKD-810-90 lawnmower. Always ensure the engine is off and cool, and the spark plug wire is disconnected before performing any maintenance.

After Each Use:

- Clean the cutting deck and blades to remove grass clippings and debris.
- Inspect the blades for sharpness and damage. Sharpen or replace as needed.
- Check the tracked system for any debris accumulation or damage.

Regular Checks:

- **Engine Oil:** Check oil level before each use and change according to the engine manufacturer's recommendations.
- **Air Filter:** Inspect and clean or replace the air filter regularly, especially in dusty conditions.
- **Spark Plug:** Inspect and clean or replace the spark plug as recommended by the engine manufacturer.
- **Fasteners:** Check all nuts, bolts, and screws for tightness.
- **Belts:** Inspect drive belts for wear and tension.

Storage:

- Store the lawnmower in a clean, dry area, protected from weather.
- For extended storage, follow engine manufacturer's guidelines for fuel stabilization and battery care.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here, or if solutions do not resolve the issue, contact SYKEND customer support.

Problem	Possible Cause	Solution
Engine does not start	No fuel; low oil; spark plug issue; battery low (for electric start)	Check fuel level; check oil level; inspect spark plug; ensure battery is charged.
Poor cutting performance	Dull or damaged blades; cutting height too low for grass type; engine RPM too low	Sharpen or replace blades; adjust cutting height; ensure engine is running at optimal RPM.
Lawnmower not responding to remote control	Remote control battery low; out of range; interference; machine power off	Replace or charge remote battery; move closer to the machine; check for obstructions; ensure machine power is ON.
Excessive vibration	Damaged or unbalanced blades; loose fasteners	Inspect and replace/balance blades; tighten all fasteners.

SPECIFICATIONS

Self-generating system
 Mowing width 90cm
 Gasoline engine
 Exported to EPA, CE certified
 Powered by American B&S 810CC engine
 Global warranty for 3 years EFI technology
 Maximum mowing efficiency 4500²/H Electric start
 Maximum climbing grade 70°



Unpacked: 315 kg. Packaged: 360 kg
 Dimensions: 1.3 x 1.4 x 0.62 m

Figure 6: Visual summary of key specifications and features.

This image provides a quick visual overview of some of the lawnmower's key features and specifications, including its self-generating system and engine details.

Feature	Detail
Brand	SYKEND
Model Number	SKD-810-90
Power Source	Gas Powered (27hp Twin-Cylinder Engine)
Motor	48V Brushless Motor
Material	Alloy Steel
Style	Off-road

Feature	Detail
Cutting Width	35.43 Inches (90cm)
Operation Mode	Remote Control
Product Dimensions (D x W x H)	51.18"D x 55.12"W x 25.59"H
Maximum Adjustable Cutting Height	7.87 Inches
Climbing Angle	Up to 65°
Remote Control Range	Up to 1968ft (600m)
Assembly Required	No (Minimal setup required)

WARRANTY AND SUPPORT

Warranty Information:

The SYKEND SKD-810-90 comes with a global warranty for 3 years on its EFI technology. Please retain your proof of purchase for warranty claims.

Protection Plan:

An optional 3-Year Protection Plan is available for purchase to extend coverage beyond the standard warranty. Refer to the protection plan documentation for full terms and conditions.

Customer Support:

For technical assistance, parts, or warranty inquiries, please contact SYKEND customer support. Contact details can typically be found on the SYKEND official website or through your original point of purchase.