Stiga Tornado 398

STIGA Tornado 398 Ride-on Mower User Manual

Model: Tornado 398
Brand: Stiga

Product Overview

The STIGA Tornado 398 is a powerful and robust ride-on mower designed for efficient lawn maintenance. It features a STIGA ST 450 engine and a 98 cm cutting deck, making it suitable for various terrains.

Key Features

- **STIGA ST 450 Engine:** Powerful 432 cm^3 single-cylinder engine for reliable mowing performance, suitable for challenging terrains.
- **Hydrostatic Transmission:** Provides smooth and comfortable driving with a 98 cm cutting deck.
- **Efficient Side Discharge:** Rapid and uniform grass dispersion for a clean and effortless result.
- **Cutting Height Adjustment:** 7 positions from 25 to 80 mm to adjust mowing to the desired height.
- **Optional Mulching:** STIGA Multiclip system for effective mulching and naturally nourished lawn (kit sold separately).

Front view of the STIGA Tornado 398 ride-on mower, showcasing its yellow and black design.

Setup and Assembly

Before operating your STIGA Tornado 398, ensure proper assembly and initial setup. The mower is delivered partially assembled and requires some final steps before use.

Initial Checks

- Ensure all packaging materials are removed.
- Verify that all components listed in the packing list are present.
- Add engine oil as required (engine oil is not pre-filled).
- The battery is typically pre-charged, but ensure it is securely connected.
- Refer to the detailed assembly instructions provided in the separate assembly guide for specific steps.

Side view of the STIGA Tornado 398 ride-on mower, highlighting its compact design and wheels.

Close-up of the comfortable black seat on the STIGA Tornado 398 ride-on mower.

Detailed view of the ergonomic steering wheel of the STIGA Tornado 398.

Front view of the STIGA Tornado 398, showing the grille and headlights.

Close-up of the robust front bumper of the STIGA Tornado 398, designed for protection.

View of the convenient storage compartment located near the steering wheel on the STIGA Tornado 398.

Top-down view of the STIGA ST 450 engine, located under the hood of the Tornado 398.

Rear fender of the STIGA Tornado 398, featuring a practical cup holder.

Operating Instructions

Follow these guidelines for safe and effective operation of your ride-on mower.

Starting the Mower

1. Ensure the engine hood is securely closed. The mower will not start if the hood is open.
2. Check the fuel level and ensure there is sufficient engine oil.
3. Engage the parking brake.
4. Turn the ignition key to the start position.
5. Once the engine starts, release the key.

Mowing

1. Adjust the cutting height using the lever, choosing from 7 positions between 25 mm and 80 mm.
2. Engage the cutting blades.
3. Utilize the hydrostatic transmission for smooth speed control and comfortable maneuvering.
4. The mower features efficient side discharge for uniform grass dispersion.
5. For mulching, ensure the optional STIGA Multiclip kit is installed (sold separately).

Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your STIGA Tornado 398.

Routine Checks

- **Engine Oil:** Check engine oil level before each use and change according to the engine manufacturer's recommendations.
- **Cutting Deck:** Clean the underside of the cutting deck after each use to prevent grass buildup.
- **Blades:** Inspect cutting blades for sharpness and damage. Sharpen or replace as needed.
- **Tire Pressure:** Maintain recommended tire pressure for optimal traction and even cutting.
- **General Cleaning:** Keep the mower clean from debris, especially around the engine and cooling fins.

Storage

For extended periods of non-use, especially during off-season, prepare your mower for storage:

- Clean the mower thoroughly.
- Drain fuel or add a fuel stabilizer.
- Disconnect the battery or use a trickle charger.
- Store in a dry, protected area.

Troubleshooting

This section provides solutions to common issues you might encounter with your STIGA Tornado 398.

Issue	Possible Cause	Solution

Issue	Possible Cause	Solution
Mower does not start	Engine hood open, low fuel, dead battery, spark plug issue.	Ensure engine hood is closed. Check fuel level. Check battery connections and charge. Inspect spark plug.
Poor cutting performance	Dull blades, incorrect cutting height, excessive grass height.	Sharpen or replace blades. Adjust cutting height. Mow tall grass in multiple passes.
Uneven cut	Uneven tire pressure, bent blade, debris in cutting deck.	Check and adjust tire pressure. Inspect blades for damage. Clean cutting deck.
Excessive vibration	Bent blade, loose components, engine imbalance.	Inspect blades for damage. Check all bolts and fasteners. If issue persists, consult a service technician.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact authorized STIGA service personnel.

Technical Specifications

Specification	Value
Product Dimensions (L x W x H)	17 x 8 x 94 cm; 157 kilograms
Battery(ies)	1 x 12V (requires batteries)
Reference Model	Tornado 398
Height	110 centimeters
Length	172.6 centimeters
Width	120 centimeters
Weight	165 Kilograms
Material Type	Metal, Plastic
Sun Exposure	Full sun
Power Source	Thermal
Spare Parts Availability	Information unavailable on spare parts
ASIN	B0CV45Y9WQ
Brand	Stiga
Color	Yellow
Style	Cylinder
Item Weight	157 Kilograms
Cutting Width	98 Centimeters

Specification	Value
Number of Positions (Cutting Height)	7
Operating Mode	Manual

Warranty and Support

STIGA products are manufactured to high-quality standards and are backed by a manufacturer's warranty. Specific warranty terms and conditions may vary by region and purchase date. Please refer to the warranty card included with your product or visit the official STIGA website for detailed information.
For technical support, spare parts, or service inquiries, please contact your authorized STIGA dealer or the STIGA customer service department. Ensure you have your product model number (Tornado 398) and serial number ready when contacting support.

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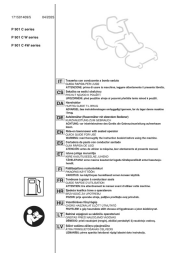
Related Documents - Tornado 398

	STIGA READY and READY HST Lawn Mower User Manual Comprehensive user manual for STIGA READY and READY HST lawn mowers, detailing controls, operation, safety precautions, and maintenance procedures. Includes model number 8211-0343-01.
	STIGA Park Series 2WD Ride-On Lawn Mower Manual Comprehensive instruction manual for the STIGA Park Series 2WD ride-on lawn mowers, including models Park 120 and Park 220. Covers technical specifications, accessories, and maintenance information.
	STIGA PARK 4WD Lawn Tractor: PRO 25, PRO 20, PRO 16, PRESTIGE - User Manual Comprehensive user manual for STIGA PARK 4WD lawn tractors, covering models PRO 25, PRO 20, PRO 16, and PRESTIGE. Includes operation, safety, maintenance, and troubleshooting instructions.

	[STIGA Wire-Guided Robot Mower: User Manual and Safety Guide] Essential introduction to the STIGA wire-guided robot mower, covering operational procedures, safety precautions, and installation guidelines for efficient and safe lawn care.
	[STIGA MCS 470 Li 48 Series, MCS 470 Li D48 Series, MCS 500 Li D48 Series Operator's Manual] This manual provides comprehensive instructions for the safe operation, maintenance, and troubleshooting of STIGA MCS 470 Li 48 Series, MCS 470 Li D48 Series, and MCS 500 Li D48 Series battery-powered lawn mowers.
	[STIGA P 901 C Series Ride-on Lawnmower User Manual] Comprehensive user manual for STIGA P 901 C, P 901 C W, and P 901 C 4W series ride-on lawnmowers. Includes safety instructions, product description, assembly, operation, maintenance, troubleshooting, and technical specifications.