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> Husqvarna TS 120 (42") 19HP Briggs Lawn Tractor 970846301 User Manual

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Model: 970846301

1. INTRODUCTION

Congratulations on your purchase of the Husqvarna TS 120 Lawn Tractor. This manual provides essential information for the safe and efficient operation, maintenance, and care of your new equipment. Please read this manual thoroughly before operating the tractor and keep it for future reference.



Figure 1: Husqvarna TS 120 Lawn Tractor, side view. This image shows the overall design of the tractor, including the seat, steering wheel, and mower deck.

2. SAFETY INFORMATION

Your safety and the safety of others are paramount. Always follow the safety instructions provided in this manual. Failure to do so can result in serious injury or death.

2.1 General Safety Rules

- Read the entire manual before operating the machine.
- Never allow children or untrained persons to operate the tractor.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and sturdy footwear.
- Inspect the area before mowing. Remove objects that could be thrown by the blades.
- Do not operate the tractor under the influence of alcohol or drugs.
- Always disengage the cutting blades and set the parking brake before leaving the operator's position.
- Avoid sudden starts or stops, especially on slopes.
- Mow across the face of slopes, not up and down.
- Keep all guards and safety devices in place and in working order.

2.2 Decals and Symbols

Familiarize yourself with all safety decals and symbols on the tractor. Replace any damaged or missing decals.

3. SETUP AND PRE-OPERATION CHECKS

The Husqvarna TS 120 is designed for minimal assembly. However, it is crucial to perform pre-operation checks before each use to ensure safe and optimal performance.

3.1 Initial Setup

- **Battery Connection:** Ensure the battery terminals are securely connected.
- **Fueling:** Fill the fuel tank with fresh, unleaded gasoline. Refer to the engine manual for specific fuel requirements.
- **Engine Oil:** Check the engine oil level and add oil if necessary. Do not overfill.
- **Tire Pressure:** Verify that all tires are inflated to the recommended pressure.

3.2 Pre-Operation Checklist

- Check for loose fasteners, nuts, and bolts.
- Inspect the mower blades for sharpness and damage.
- Ensure the mower deck is properly attached and adjusted.
- Verify that all safety interlock systems are functioning correctly.
- Clear the area of any debris that could interfere with operation.



Figure 2: Husqvarna TS 120 Lawn Tractor, front view. This image highlights the front grille, headlights, and overall robust construction of the tractor.

4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your Husqvarna TS 120 Lawn Tractor.

4.1 Starting the Engine

1. Ensure the parking brake is engaged.
2. Place the PTO (Power Take-Off) lever in the disengaged position.
3. Insert the ignition key and turn it to the "START" position. Release the key once the engine starts.
4. Allow the engine to warm up for a few minutes before engaging the blades.

4.2 Engaging the Mower Deck

Once the engine is running and warmed up, you can engage the mower deck.

- Ensure you are on a flat, level surface.
- Slowly move the PTO lever to the "ENGAGE" position.
- Adjust the cutting height using the deck lift lever to your desired setting.

4.3 Driving and Mowing

The TS 120 features a pedal-operated hydrostatic transmission for smooth speed control.

- Release the parking brake.
- Press the forward pedal to move forward, and the reverse pedal to move backward. The harder you press, the faster the tractor will move.
- Maintain a steady, moderate speed for the best cutting results.
- Overlap cutting swaths slightly to avoid missed strips.
- The tractor is equipped with side ejection as standard. Optional accessories like a collector or BioClip cover are available for mulching or grass collection.

4.4 Stopping the Engine

1. Disengage the PTO (mower blades).
2. Engage the parking brake.
3. Turn the ignition key to the "OFF" position and remove it.
4. Allow the engine to cool before storing.

5. MAINTENANCE

Regular maintenance is essential for the longevity and performance of your Husqvarna TS 120. Always refer to the engine manufacturer's manual for specific engine maintenance procedures.

5.1 Daily Checks

- Check engine oil level.
- Inspect air filter for excessive dirt.
- Clean grass clippings from the mower deck and engine cooling fins.
- Check tire pressure.

- Ensure all safety devices are operational.

5.2 Periodic Maintenance

- **Engine Oil Change:** Change engine oil after the first 5 hours, then every 50 hours or annually.
- **Spark Plug:** Inspect and clean or replace the spark plug annually.
- **Fuel Filter:** Replace the fuel filter annually or as needed.
- **Mower Blades:** Sharpen or replace blades as necessary. Always use genuine Husqvarna replacement parts.
- **Battery:** Check battery fluid levels (if applicable) and clean terminals.
- **Lubrication:** Lubricate all grease fittings as specified in the full service manual.



Figure 3: Husqvarna TS 120 Lawn Tractor, angled view. This image provides a closer look at the engine compartment and controls, useful for maintenance checks.

6. TROUBLESHOOTING

This section provides solutions to common operational issues. For more complex problems, contact an authorized Husqvarna service dealer.

Problem	Possible Cause	Solution
Engine will not start	<ul style="list-style-type: none"> ◦ No fuel ◦ Dead battery ◦ Spark plug issue ◦ Safety interlock engaged 	<ul style="list-style-type: none"> ◦ Add fresh fuel ◦ Charge or replace battery ◦ Inspect/replace spark plug ◦ Ensure PTO is disengaged, parking brake set, and operator is in seat
Poor cutting performance	<ul style="list-style-type: none"> ◦ Dull blades ◦ Incorrect cutting height ◦ Engine speed too low ◦ Wet or overgrown grass 	<ul style="list-style-type: none"> ◦ Sharpen or replace blades ◦ Adjust cutting height ◦ Increase engine RPM ◦ Mow when grass is dry; cut in smaller passes
Tractor loses power	<ul style="list-style-type: none"> ◦ Low fuel ◦ Clogged air filter ◦ Engine overheating 	<ul style="list-style-type: none"> ◦ Refuel ◦ Clean or replace air filter ◦ Check cooling fins for debris; allow engine to cool

7. SPECIFICATIONS

Feature	Detail
Model	TS 120
Model Number	970846301
Engine	Briggs & Stratton 19 HP 540cc Engine
Power Source	Gas Powered
Cutting Width	42 Inches (Twin Blade Stamped Mower Deck)
Transmission	Pedal-Operated Hydrostatic
Operation Mode	Manual
Product Dimensions (D x W x H)	72"D x 48"W x 48"H
UPC	193028814886

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty statement included with your product documentation or visit the official Husqvarna website.

If you require technical assistance, replacement parts, or service, please contact your authorized Husqvarna dealer or Husqvarna customer support. Ensure you have your model number (970846301) and serial number ready when contacting support.

Husqvarna Official Website: www.husqvarna.com