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› MMS MS360T Mini Skid Steer Loader Instruction Manual

MMS MS360T

MMS MS360T Mini Skid Steer Loader Instruction Manual

Model: MS360T | Brand: MMS

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your MMS MS360T Mini Skid Steer Loader. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent injury or damage.

The MMS MS360T is a compact and versatile mini skid steer loader designed for various tasks including material handling, cleaning, and landscaping. It features a robust RATO gasoline engine and a triangle track design for optimal performance and maneuverability.



Figure 1: MMS MS360T Mini Skid Steer Loader. This image shows the compact skid steer loader with its standard bucket attachment, ready for operation.

2. SAFETY INFORMATION

Always prioritize safety when operating heavy machinery. Failure to follow safety instructions can result in serious injury or death.

- Read and understand all instructions and warnings in this manual before operation.
- Wear appropriate personal protective equipment (PPE), including hard hat, safety glasses, hearing protection, and steel-toed boots.
- Ensure the work area is clear of bystanders, especially children and pets.
- Never operate the machine under the influence of alcohol or drugs.
- Perform daily pre-operation checks as outlined in the maintenance section.
- Keep all guards and safety devices in place and in working order.
- Be aware of your surroundings and potential hazards, such as uneven terrain, slopes, and overhead obstructions.

3. PRODUCT OVERVIEW

3.1 Key Features

- **Engine:** Equipped with a 13.5HP EPA RATO gasoline engine, featuring air-cooled cooling for stable power output and reduced maintenance.
- **Track Design:** Triangle track design with rubber tracks provides strong grip, reduces ground pressure, and minimizes damage to surfaces.
- **Compact Size:** With a width of only 39 inches, the MS360T can easily maneuver in narrow spaces.
- **Attachment Compatibility:** Features a quick attach plate, supporting a wide range of attachments for various tasks.
- **Standard Bucket:** Includes a 42-inch wide bucket for sand, soil, and material handling.



ENGINE			
Brand	RATO	Displacement	420cc
Model	R420	Rated Powe	13.5hp

Figure 2: Engine Compartment. This image highlights the RATO gasoline engine, emphasizing its air-cooled design for efficient operation.

3.2 Components

The MS360T consists of the main chassis, engine, hydraulic system, operator controls, and quick-attach plate for implements.

The lift arm and bucket attachments can be operated independently.



Figure 3: Operational Flexibility. This image illustrates the machine's ability to handle inclines and the independent operation of its lift arm and bucket.

4. SPECIFICATIONS

The following table details the technical specifications of the MMS MS360T Mini Skid Steer Loader:

Parameter	Value	Parameter	Value
Model	MS360T	Max Working Height	83.46 inch
Engine	RATO R420	Max Pin Height	73.42 inch
Rated Power (Kw)	9.7Kw/3600rpm	Max Dumping Height	55.31 inch

Parameter	Value	Parameter	Value
Rotating Speed (rpm)	3600	Max Dumping Distance	22.64 inch
Noise (Db)	<95	Max Dumping Angle	35°
Pressure (Mpa)	0-17Mpa	Total Height	53.15 inch
Flow Rate	0-18L	Ground Clearance	4.76 inch
Engine Oil	1.7L	Overall Length without Bucket	58.86 inch
Bucket Capacity	0.13m³	Total Width	38.98 inch
Travel Speed	0-3Km/h	Bucket width	42.52 inch
Operating Weight	630kg	Total Length with Bucket	88.38 inch
Fuel Type	Gasoline	Product Dimensions	79 x 44 x 53 inches
Item Weight	1800 pounds		



MS360T

Crawler Track

Skid Steer Loader

PRODUCT PARAMETER

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Rotating Speed (rpm)	3600	Max Dumping Distance	22.64 inch
Noise(Db)	≤95	Max Dumping Angle	35°
Pressure (Mpa)	0-17Mpa	Total Height	53.15 inch
Flow Rate	0-18L	Ground Clearance	4.76 inch
Engine Oil	1.7L	Overall Lengthwithout Bucket	58.86 inch
Bucket Capacity	0.13m³	Total Width	38.98 inch
Hydraulic Tank	30L	Bucket width	42.52 inch
Travel Speed	0-3Km/h	Total Length with Bucket	88.38 inch
Operating Weight	630kg	Oil	Gasoline

Figure 4: Detailed Product Parameters. This image provides a visual representation of the key specifications for the MS360T model.

5. SETUP AND INITIAL INSPECTION

5.1 Unpacking

The MMS MS360T Mini Skid Steer Loader is typically shipped in a wooden crate. Use appropriate lifting equipment, such as a forklift, for safe unloading.

The goods are packed in wooden cases
Better to unload it by forklift



Figure 5: Unloading the Skid Steer. This image demonstrates the recommended method for safely unloading the crated machine using a forklift.

5.2 Contents Check

Verify that all components are present and undamaged upon receipt. The package should include:

- MMS MS360T Mini Skid Steer Loader main unit
- Standard 42-inch bucket attachment
- Toolbox
- Instruction Manual (this document)

5.3 Pre-Operation Checks

Before the first use and prior to each operation, perform the following checks:

- **Fluid Levels:** Check engine oil and hydraulic fluid levels. Refer to the Maintenance section for specifications.
- **Fuel:** Ensure the fuel tank contains sufficient gasoline.

- **Tracks:** Inspect tracks for damage or excessive wear.
- **Controls:** Verify that all control levers and pedals move freely and return to neutral.
- **Safety Devices:** Confirm all safety guards, lights, and warning decals are intact and functional.
- **Attachments:** Ensure any attached implements are securely fastened to the quick attach plate.

6. OPERATING INSTRUCTIONS

6.1 Starting the Engine

Follow these steps to start the RATO gasoline engine:

1. Ensure the machine is on level ground and the parking brake is engaged.
2. Turn the fuel valve to the 'ON' position.
3. Open the engine throttle slightly.
4. If the engine is cold, engage the choke.
5. Insert the key into the ignition and turn it to the 'START' position. Release once the engine starts.
6. Once the engine is running, gradually disengage the choke (if used) and allow the engine to warm up for a few minutes before operation.

Your browser does not support the video tag.

Video 1: Engine Starting Procedure. This video demonstrates the step-by-step process for starting the engine of a similar MMS track skid steer loader, including throttle and choke operation.

6.2 Controls and Driving

The MS360T is operated using joystick controls for movement and hydraulic functions. Familiarize yourself with the control layout before attempting to drive.

- **Driving:** Use the left and right joysticks to control forward, reverse, and turning movements. Push both forward to move straight, pull both back for reverse. Push one forward and pull the other back to turn.
- **Lift Arm:** Typically controlled by one joystick, moving it up or down raises or lowers the lift arms.
- **Bucket/Attachment:** Controlled by another joystick or switch, allowing for tilting, curling, or operating specific attachment functions.

6.3 General Operation Tips

- Operate at a safe speed, especially on uneven terrain or when carrying a load.
- Maintain a low center of gravity by keeping the bucket or attachment low when traveling.
- Avoid sudden movements or turns, which can lead to instability.
- When working on slopes, always drive straight up or down, never across.
- The compact width of 39 inches allows for navigation in narrow spaces like orchards and courtyards.

7. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your MS360T Mini Skid Steer Loader. The RATO engine's air-cooled design contributes to lower maintenance costs.

7.1 Daily Checks

- Check engine oil level.
- Check hydraulic fluid level.

- Inspect tracks for debris, damage, or tension.
- Clean air filter if operating in dusty conditions.
- Check for any visible leaks (fuel, oil, hydraulic fluid).
- Ensure all lights and safety alarms are working.

7.2 Scheduled Maintenance

- **Engine Oil Change:** Refer to the RATO engine manual for specific intervals, typically every 50-100 hours of operation.
- **Hydraulic Filter Replacement:** Replace as recommended by the manufacturer, usually every 200-500 hours.
- **Spark Plug Inspection/Replacement:** Check annually or as needed.
- **Fuel Filter Replacement:** Replace as needed or annually.
- **Track Tension Adjustment:** Periodically check and adjust track tension to prevent premature wear.



Figure 6: Engine Heat Dissipation. This image shows the open engine compartment, highlighting the cooling system designed for efficient heat dissipation and sustained performance.

8. TROUBLESHOOTING

This section provides solutions to common operational issues. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Engine does not start	No fuel, dead battery, spark plug issue, choke not set	Check fuel level, charge/replace battery, inspect/replace spark plug, adjust choke.
Loss of hydraulic power	Low hydraulic fluid, clogged filter, pump issue	Check/refill hydraulic fluid, replace hydraulic filter, contact service for pump inspection.
Machine moves slowly or weakly	Engine running rough, low fuel, hydraulic issue	Check engine performance, ensure adequate fuel, inspect hydraulic system.
Excessive vibration	Loose components, unbalanced tracks, engine issue	Inspect all fasteners, check track condition, consult engine manual.

9. COMPATIBLE ATTACHMENTS

The MMS MS360T Mini Skid Steer Loader is designed with a quick attach plate, allowing for compatibility with a wide range of assistive devices (attachments sold separately). This versatility makes it suitable for various applications on farms, construction sites, and for landscaping.

COMPATIBLE ASSISTIVE DEVICES

(Assistive devices need to be purchased separately)



Grapple



Side Shift Fork



Fork



Ripper



35 Breaker



Auger



Land Leveler



Traction Device

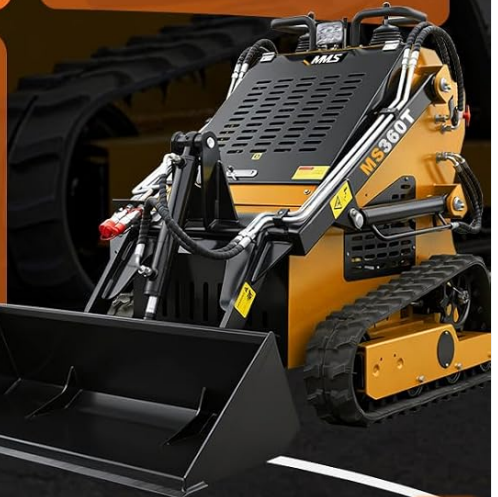


Figure 7: Compatible Assistive Devices. This image displays a selection of attachments that can be used with the MS360T, including grapples, forks, rippers, breakers, and augers.

Common attachments include:

- **Grapple:** For handling brush, logs, and irregular materials.
- **Side Shift Fork:** For palletized loads and material transport.
- **Ripper:** For breaking up compacted soil or roots.
- **Breaker:** For demolition tasks.
- **Auger:** For drilling post holes.
- **Land Leveler:** For grading and smoothing surfaces.
- **Traction Device:** For specific ground engagement needs.
- **Broom Sweeper:** For clearing debris.
- **Stump Grinder:** For removing tree stumps.
- **4-in-1 Bucket:** A versatile bucket for multiple functions.

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact MMS customer support directly. MMS Excavator offers customer support and typically provides a 30-day easy returns policy.

If you require technical assistance, replacement parts, or have questions regarding your MMS MS360T Mini Skid Steer Loader, please contact the manufacturer or your authorized dealer.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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