

AGT INDUSTRIAL AGT-H15

AGT INDUSTRIAL AGT-H15R Mini Excavator User Manual

Detailed instructions for safe and efficient operation, maintenance, and troubleshooting of your AGT-H15R Mini Excavator.

1. INTRODUCTION

This manual provides essential information for the proper use, maintenance, and safety of your AGT INDUSTRIAL AGT-H15R Mini Excavator. Please read this manual thoroughly before operating the machine to ensure safe and efficient performance. The AGT-H15R is a compact, powerful excavator designed for various digging and earthmoving tasks, featuring a 13.5HP RATO gasoline engine and a pilot control system.

2. SAFETY INFORMATION

WARNING: For external use only. Always follow all safety guidelines and local regulations when operating heavy machinery.

- Ensure all operators are trained and familiar with the machine's controls and safety procedures.
- Wear appropriate personal protective equipment (PPE), including hard hat, safety glasses, hearing protection, and steel-toed boots.
- Inspect the excavator before each use for any damage, leaks, or loose components.
- Maintain a safe distance from bystanders and other equipment.
- Never operate the machine under the influence of alcohol or drugs.
- Be aware of your surroundings, including overhead power lines, underground utilities, and unstable ground.
- Secure the machine properly during transport.

3. PRODUCT OVERVIEW

The AGT-H15R Mini Excavator is a versatile machine designed for precision and power in confined spaces. Its compact design and pilot control system offer excellent maneuverability and ease of operation for various tasks, from landscaping to light construction.



Figure 1: Front-side view of the AGT INDUSTRIAL AGT-H15R Mini Excavator, showcasing its compact size and digging arm.

Key features include a 1-ton operating weight, a 13.5HP RATO gasoline engine, and a robust hydraulic system for efficient digging and slewing.

4. SETUP AND ASSEMBLY

Upon receiving your AGT-H15R Mini Excavator, ensure all components are present and undamaged. The machine typically arrives largely assembled, but some minor setup may be required.

4.1 Unpacking and Inspection

1. Carefully remove the excavator from its packaging.
2. Inspect the machine for any visible shipping damage. Report any damage immediately to the carrier and supplier.
3. Verify that all accessories, including the toolbox, are present.

4.2 Initial Fluid Checks

- **Engine Oil:** Check the engine oil level. The engine oil capacity is 1.1 quarts. Fill to the recommended level with the specified oil type.
- **Hydraulic Oil:** Check the hydraulic oil tank level. The tank capacity is 4.76 gallons. Ensure it is at the proper level.
- **Fuel:** Fill the fuel tank with 92# grade gasoline. The fuel tank capacity is 1.77 gallons.

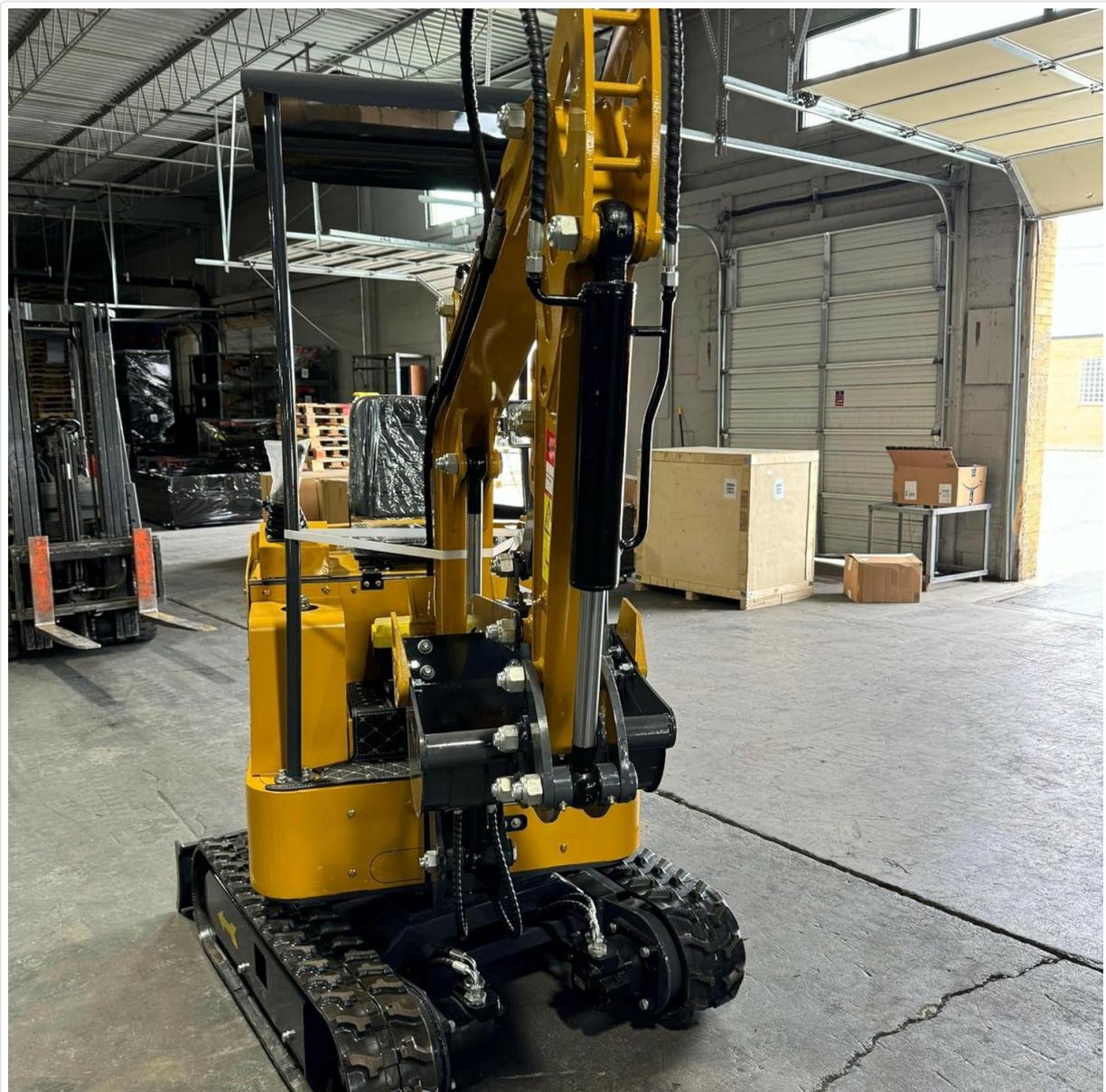


Figure 2: Rear view of the AGT-H15R Mini Excavator, showing the engine compartment access for fluid checks.

5. OPERATING INSTRUCTIONS

The AGT-H15R features a pilot control system for precise and responsive operation. Familiarize yourself with all controls before starting the engine.

5.1 Controls Overview



Figure 3: Operator's station with pilot control levers and dashboard.

- **Left Joystick:** Controls boom swing and bucket curl.
- **Right Joystick:** Controls boom lift/lower and stick in/out.
- **Foot Pedals:** Control track movement (forward/reverse).
- **Throttle Lever:** Adjusts engine speed.
- **Blade Control:** Lever for raising and lowering the dozer blade.

5.2 Starting the Engine

1. Ensure the machine is on level ground and the parking brake is engaged.
2. Turn the ignition key to the 'ON' position.
3. Move the throttle lever to a mid-range position.
4. Turn the ignition key to 'START' and release once the engine fires.
5. Allow the engine to warm up for a few minutes before operating.

5.3 Basic Operation

- **Digging:** Use a combination of joystick movements to control the boom, stick, and bucket for digging operations.
- **Slewing:** Use the left joystick to rotate the upper structure of the excavator.
- **Traveling:** Use the foot pedals to move the tracks. Ensure the dozer blade is raised when traveling.
- **Dozer Blade:** Use the blade for leveling, backfilling, or stabilizing the machine during digging.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your AGT-H15R Mini Excavator.

6.1 Daily Checks

- Check engine oil, hydraulic oil, and fuel levels.
- Inspect tracks for damage or excessive wear.
- Check for any hydraulic fluid leaks around hoses and cylinders.
- Ensure all lights and safety features are operational.

6.2 Scheduled Maintenance

- **Engine Oil Change:** Refer to the engine manufacturer's recommendations, typically every 50-100 operating hours. The engine oil capacity is 1.1 quarts.
- **Hydraulic Filter Replacement:** Replace hydraulic filters as recommended by the manufacturer to maintain system cleanliness.
- **Greasing:** Regularly grease all pivot points and moving parts to reduce wear.
- **Air Filter:** Clean or replace the engine air filter as needed, especially in dusty conditions.



Figure 4: Side view of the AGT-H15R Mini Excavator, indicating areas for routine inspection and maintenance.

7. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, consult a qualified technician or AGT INDUSTRIAL support.

- **Engine Fails to Start:**
 - Check fuel level.

- Ensure battery connections are secure and charged.
- Verify ignition switch is functioning.
- **Loss of Hydraulic Power:**
 - Check hydraulic oil level.
 - Inspect hydraulic hoses for leaks or damage.
 - Check hydraulic filter for clogging.
- **Overheating Engine:**
 - Check coolant level (if applicable, for liquid-cooled engines).
 - Clean radiator fins and engine cooling fins.
 - Ensure proper ventilation around the engine.

8. TECHNICAL SPECIFICATIONS

| Parameter | Value |
|--|-----------------------|
| Operation Weight | 1 Ton (2205 pounds) |
| Engine | RATO Gasoline |
| Horse Power | 13.5 HP |
| Max Angle | 35 Degree |
| Bucket Capacity | 0.88 cubic feet |
| Fuel Grade | 92# Gasoline |
| Engine Oil Change Capacity | 1.1 quarts |
| Fuel Consumption | 0.5-1.2 quarts/hour |
| Traveling Speed | 0-1.24 mph |
| Hydraulic Pressure (Travel/Slewing) | 23.5/18 psi |
| Hydraulic Tank Capacity | 4.76 gallons |
| Main Pump Flow Rate | 8-12 gallons/minute |
| Max Digging Height | 102.76 inches |
| Max Unloading Height | 72.83 inches |
| Max Digging Depth | 65 inches (5.41 feet) |
| Max Digging Radius | 112.2 inches |
| Overall Length | 84.25 inches |

| Parameter | Value |
|------------------|--|
| Overall Width | 39.37 inches |
| Overall Height | 83 inches |
| Model Number | AGT-H15 |
| UPC | 742803728582 |
| Special Features | Compact Design, Internal Hydraulic Hoses, Mechanical Thumb, Pilot Control System |

9. WARRANTY AND SUPPORT

AGT INDUSTRIAL is committed to providing reliable equipment and customer satisfaction. For warranty information, technical assistance, or parts inquiries, please contact AGT INDUSTRIAL customer support. AGT Equipment, a USA-based branch of Agrotkindustrial, operates warehouses in Los Angeles and Chicago to serve American customers efficiently. For support, please refer to the contact information provided at the time of purchase or visit the official AGT INDUSTRIAL website. Consider purchasing an extended protection plan for additional coverage and peace of mind. A 4-Year Protection Plan is available for this product.