



LGM-100 Owner's Manual



We hope you enjoy your new loader!

The LGM USA Team

www.lgmusa.com

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Safety Precautions



PLEASE READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY

The LGM-100 is designed to enable you to safely get the most out of your tractor. It is important that you follow these safety guidelines to protect yourself and others from potential serious injury or death.

General Precautions

- Always secure your equipment when not in use. For LGM-100 owners (with the “Updated Wiring Harness”) turning your tractor off and removing the key secures the front-end loader. For “Little Green Monster” owners, we recommend disconnecting the loader from the battery when not in use.
- Never leave children unattended with access to an operational front-end loader.
- Do not tamper with, alter, or modify your front-end loader as this can result in unsafe operating conditions.
- Check all tire pressures meet the manufacturer recommendations before using your front-end loader.
- Follow all safety instructions provided with your tractor.
- Always be aware of your surroundings. Ensure the area you are working in is free from any people or obstacles. Do not use the loader around unattended children.
- Never allow anyone to ride in the bucket.

Safely Operating Your LGM-100

- **Ballast Weight:** Ensure you have adequate ballast weight for the load you plan to lift. To reach the max lift capacity of 350lbs, we recommend four (4) of the 42lbs John Deere suitcase weights hung from the rear weight bar. More weight may be necessary.
- **Driving with loads:** Never drive with the loader at maximum height, always lower the loader as close to the ground as is possible without hitting the ground. Only lift the load to maximum height when needed, and drive very slowly while at maximum height.
- **Steep Inclines:** Avoid driving on steep inclines whenever possible. If you must drive on a steep incline, always face the tractor up the hill and keep the load as close to the ground as possible. NEVER drive facing down a steep incline with a heavy load, this can result in a loss of control of your tractor. Back down the incline instead. Avoid driving horizontally to the incline, instead drive horizontally along a flat area at the top or bottom of the incline, and then drive vertically along the incline.
- **Loss of Control of Your Tractor:** If you ever feel you are losing control, lower the bucket into the ground. This will stabilize your tractor and help regain control.
- **Loss of Control of Your Loader:** If you lose the ability to control your loader, or the actuators move unexpectedly, immediately turn your tractor key off to disconnect power to the front-end loader. Contact us for assistance.



Operating Instructions

The LGM-100 is a versatile attachment that has many uses. The more you use your loader, the better you will become at understanding the best ways to get the most out of it. These instructions will focus on understanding the limits of your LGM-100 so as to not damage or break your equipment.

Before Using Your LGM-100

- Ensure you read all instructions carefully. Pay special attention to the Safety Precautions.
- Ensure the area around your tractor and front-end loader is clear of any people or objects.
- Turn your tractor on.
- Use the switches (or joystick if equipped) to test the motion of your LGM-100. Ensure full travel of all actuators without any binding. Make sure the electrical wires have plenty of clearance from any moving parts, especially the tires.

LGM-100 Limitations

The LGM-100 can be used to perform many different activities such as: lifting, scooping, scraping, digging and dumping. These activities can all be performed without concern for damaging your equipment as long as you understand these limits:

Actuator Limitations:

- The Electric Linear Actuators provided with your LGM-100 are very powerful. Unlike hydraulic cylinders, these actuators apply the same amount of force in both directions. This can be very helpful when trying to dig or scrape.
- However, be careful when using the power and weight of your tractor to push the leading edge of the bucket into the ground while driving forward. If the front edge of the bucket becomes stuck on an object such as a root, then the momentum and power of the tractor pushing against the actuator can cause a failure that is not covered by the warranty.
- To prevent damage to the actuators from this, always do any digging at a slow pace. If you are unable to dig up the ground at a slow pace, then other means are necessary to first loosen the soil before trying to scoop it up.
- Never build up speed with the tractor in order to try to get more force driving the bucket into the ground, the mass and momentum of the tractor will break an actuator if the bucket snags on something.
- Similarly, do not drive around with the leading edge of the bucket facing vertically down. If the leading edge catches the ground, the mass and momentum of the tractor will break the actuator. Instead, tilt the leading edge of your bucket to angle slightly upwards when driving around. This way if the bucket does contact the ground, it should just slide along the ground and not bind.

- The second most common cause of actuator failure is trying to drive around with a heavy load at full height. This can put an extreme amount of lateral load on the actuators if the tractor hits a bump or is driving horizontally on a hill. This type of failure is also not covered by warranty, but is easily avoided by always lowering your load before driving around.
- The last form of failure is from trying to exceed the maximum weight capacities specified. If you are lifting over 350 lbs, the actuators may be able to lift the load, but the forces on the actuators when you move the tractor can overload the actuator.
- If the actuators are clutching out while trying to lift a load, this is indication that the load is too heavy and shouldn't be moved with the LGM-100.

Loader Limitations:

- In general, the actuators will fail before any component of the front-end loader. However, it is still possible to damage your front end loader if you exceed the equipment specifications.
- The most common form of failure results from exceeding the maximum lifting capacity and driving around with the load high off the ground. The motion of the tractor and bouncing of the load can exceed the design specifications for the Uprights.
- Avoid damage to the loader components by not exceeding 350lbs, and always driving with the load as close to the ground as possible.

Storing your equipment

- In most cases, the loader can be left attached to your tractor. It does not interfere with the mower capabilities.
- Ensure the tractor key is turned off and removed from the tractor when not in use.
- To temporarily remove the front-end loader, follow these steps:
 1. Lift the bucket to the max position.
 2. Tilt the bucket until the front edge is perpendicular to the ground, this will create a flat surface to rest the unit on.
 3. Lower the Lift Arms until the bucket just touches the ground.
 4. Disconnect the wiring harness at the top of the Uprights.
 5. Remove both clevis pins attaching the lift actuators to the Uprights
 6. Remove both clevis pins attaching the Lift-Arms to the Uprights.
 7. Tilt the Lift-Arms and Bucket forward, and stow out of the way.

Maintaining Your Equipment



LGM-100

Due to the nature of the product, periodic maintenance is required to prevent rusting and corrosion. After use, clean off any areas with exposed steel. Then cover these areas with a layer of paint. Most hardware stores carry spray paint labeled “green farm equipment” that matches the color.

LINEAR ACTUATORS

Your electric actuators do not require any periodic maintenance. If you remove your front-end loader, we recommend storing the actuators in a safe location.

ELECTRIC COMPONENTS

Occasionally check the harness routing to ensure it is free from rubbing against any moving parts, especially the tires.

Returns

We are confident you will be fully satisfied with your LGM USA products. So we offer a 30-day money back guarantee. Contact us within 30 days of receiving your items to initiate a return. Upon receipt, we will issue a full refund less return shipping costs and a 15% restocking fee.

Warranty

MANUFACTURED PRODUCTS (EXCLUDING ELECTRICAL COMPONENTS)

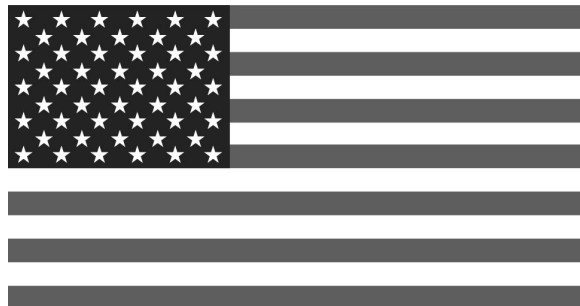
All parts are covered under a 3-year limited warranty for normal residential use protecting against equipment failure resulting from any manufacturing defects. The warranty covers the full replacement cost (including shipping) for all covered items.

ELECTRICAL COMPONENTS

All electrical components, except as specified below, are covered under a 3-year limited warranty for normal residential use protecting against failure resulting from normal operation. Any failure caused by damage due to improper installation or unintended use is not covered. The linear actuators are covered by the manufacturer under a 3-year warranty. The joystick and motor controllers are covered for a period of 2 years. This warranty covers the full replacement cost (including shipping) for all covered components.

CORROSION WARRANTY

We provide a 30-day limited corrosion & rust protection warranty. This corrosion warranty provides protection from any defects in our paint job or damage to the paint resulting from shipping. Your product should arrive rust and corrosion free, but if not, we will work with you to reach an agreeable solution to fix the problem up to, but not exceeding, replacing the part.



MADE IN USA

We source all of our materials and components from US companies.
We perform all of our manufacturing in the United States.
Our actuators are made with global materials.