Make life a bit easier

Crawler Tiller

ML-LG170F

USER MANUAL

Representative MLBE product view. Supplied equipment, controls and accessories may differ.

Intended use Soil cultivation and compatible agricultural work with the attachment and drive arrangement supplied.

> **NOTE Read before use**
>
> Match the exact model and supplied configuration. Read the safety and operating sections before starting. Confirm missing commissioning and service settings with MLBE. This reference manual supports operator checks and engineer handover; it is not a wiring, assembly or overhaul specification.

Safety · Technical data · Set-up · Operation · Care · Troubleshooting
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mlbepower.com | MLBE-17394-EN-GB-UM

1 Safety and operating limits

Use on ground that has been inspected for buried services, wire, stones and other hazards. Fit only implements approved for the exact machine and coupling. Do not use the machine to carry passengers or assume that a tilling-depth figure establishes suitability for every soil. No safe slope, towing capacity or road-use approval is established by this reference edition.

DANGER identifies a risk of death; WARNING identifies a risk of serious injury; NOTICE identifies equipment protection.

DANGER - Engine exhaust

Operate combustion engines outdoors only, well away from doors, windows, air intakes and occupied spaces. Never run in a garage, shed, tent, pit or partly enclosed area, even with doors open. Carbon monoxide cannot be seen or smelled. If anyone feels dizzy, sick or weak, stop exposure, move to fresh air and obtain urgent medical help. Do not enter an unsafe atmosphere to attempt a rescue.

WARNING - Fuel and hot surfaces

Stop the engine and allow it to cool before refuelling. Work outdoors away from smoking, flames, sparks and other ignition sources. Use a suitable fuel container, prevent spills and secure the cap. Do not restart until spills have been cleaned and vapours have dispersed. Keep combustible material away from the exhaust. Let hot parts cool before handling.

WARNING - Unexpected movement

Keep all guards and covers in place. Keep hair, clothing and jewellery clear of moving parts. Stop before adjustment, cleaning or leaving the machine unattended. Wait for all motion to stop and prevent an unintended restart. Keep children and untrained people away. Do not use the equipment when tired or affected by alcohol, drugs or medication that reduces alertness.

DANGER - Rotating blades and entanglement

Stay behind the operating controls and keep feet, hands and clothing away from blades, belts, tracks and wheels. Keep guards and side covers fitted. Stop the engine, wait for all movement to cease and prevent restart before removing roots, wire or soil. Never reach into a running attachment.

WARNING - Loss of control

Inspect for obstacles and soft edges. Work slowly with secure footing; avoid steep or unstable ground until the model-specific safe limits are confirmed. Stop the attachment before changing direction where required. Look behind before reverse travel and keep an escape path clear of walls and obstacles.

> ### Emergency action
>
> Use the marked stop control if safe to reach. Keep people away and prevent restart. Obtain emergency help for fire, serious injury or suspected carbon-monoxide exposure. Do not restart until the cause has been identified and corrected.

2 Identification and technical data

This manual covers **ML-LG170F**. Match the full model, suffix, serial number and installed equipment before using a table or ordering parts.

Specification	ML-LG170F
Power	4.0 kW / 212cc
Starting system	Manual start
Transmission	Belt
Gears	2 forward / 1 reverse
Moving mode	Crawler track
Overall dimensions	1450 x 500 x 1200 mm
Net weight	70 kg
Wooden-box package	83 x 46 x 72 cm
Standard accessory	Plough
Optional accessories	Heart-shaped potato harvester; potato harvester; three-line ditcher / grass remover (custom connectors required)

Published values depend on the supplied configuration and operating conditions. Working dimensions or capacity do not guarantee a result in every application. Packing dimensions are shipping dimensions. A listed oil capacity does not replace the specified level check.

Record with this manual: model/suffix, machine and engine serial numbers, supplied attachment or deck, fuel type and starting arrangement. Keep a photograph of the identification plate for service enquiries.

3 Controls and preparation

Control / component	What to identify before use
Engine stop and throttle	Identify the marked stop control and the permitted working-speed setting.
Main clutch / drive engagement	Know the released and engaged positions. Check the required free play and operator-presence function, if fitted.
Gear selector / range	Identify the actual forward, neutral, reverse and range positions from the machine labels; do not infer them from a generic diagram.
Handlebar and depth control	Adjust only with the engine off and confirm locking points are secure.
Implement coupling / guards	Check the correct attachment, retainers, guard coverage and drive compatibility before assembly.

Locate controls with the engine stopped. Use the actual labels and supplied procedure; photographs are appearance references, not a control-position or wiring diagram. Confirm missing assembly settings and tightening torques before work.

1. Inspect the work area

Locate buried cables, pipes and irrigation lines. Remove loose wire, stones and other objects. Mark edges and fixed obstacles. Plan a route that avoids trapping the operator against walls, trees or structures.

2. Fit the supplied running gear and implement

Confirm the correct wheels or tracks and attachment for the job. Use the exact retaining pins and fasteners specified for the model. Do not substitute improvised connectors or operate before attachment torque/retention requirements are known.

3. Adjust the operating position

With the engine stopped, set the handlebar and any depth-control device for secure footing and comfortable control. Lock all adjustments. Fit guards and confirm that control cables move freely without snagging.

4. Check fluids and the drive system

Confirm engine and gearbox fluid requirements separately. Inspect belts, guards, tyres or tracks without touching a moving drive. Confirm gear positions and clutch action before starting; do not force a selector into position.

Crawler and attachment checks

Check for trapped stones, damaged track parts and loose guards with the machine isolated. Confirm track adjustment and coupling instructions before changing them. Added traction does not establish safe slope capability. An optional attachment needs its exact connector, retention and operating instructions before use.

4 Pre-start, starting and work

Before each work period

- Confirm exact model, fuel type, fitted attachment and approved working limits.
- Inspect blades, pins, guards, wheels/tracks and fasteners for wear, damage or missing parts.
- Check engine oil and any separate gearbox lubrication by their specified methods. Confirm fuel grade.
- Select neutral and disengage drive and attachment using the actual controls. Ensure the path ahead and behind is clear.
- Check stop and operator-presence controls by the supplied safe procedure. Do not use the machine if a safety control fails.

Fuel and lubrication

This is **petrol** equipment. Confirm the exact fuel grade, oil specification and level-checking method for the supplied engine. Do not assume shipping oil is present or suitable. Fill only when stopped and cool. Do not mix fuel and oil unless the actual engine instructions require it.

A listed oil capacity is a reference quantity, not a direction to pour in that amount. Use the correct check/fill opening and the prescribed level method. Check any gearbox, hydraulic system or pump reservoir separately; engine oil instructions do not apply automatically to another system.

Starting sequence

1. Establish the safe starting state

Place the machine on stable ground with the attachment clear of people. Select neutral, disengage drive/attachment and secure the machine against unintended movement as required by its configuration.

2. Start the engine

Use the actual engine labels and fitted starter. Petrol choke, electric starting and diesel decompression procedures are configuration-specific; do not apply a procedure for a different engine.

3. Check control response

From the operating position, verify stable running and the required stopping/drive-disengagement response by the supplied procedure. Stop immediately if blades or travel move unexpectedly in the safe starting state.

4. Begin a shallow controlled pass

Choose the appropriate low working gear with the machine stopped as required by its transmission. Engage gradually. Make a light first pass and adjust depth only with the engine stopped. Do not force deep work in one pass.

During operation

- Walk at a controlled pace and keep both hands in the intended operating positions. Do not try to restrain a runaway machine by holding rotating parts or standing in its path.
- If the tiller jumps, digs in or loses traction, disengage drive and stop safely. Reduce the working load and inspect the surface before restarting.
- Stop the machine before shifting unless the supplied transmission instructions explicitly permit shifting while moving. Keep feet clear when reversing and do not cultivate backwards unless expressly approved.
- Change attachments, blade arrangements, transport wheels or depth settings only after shutdown and isolation. A crawler track provides traction but does not establish a safe slope limit.

Normal shutdown

- 1. Disengage the attachment and travel drive using the fitted controls. Bring the machine to rest on firm ground.
- 2. Select neutral and apply the parking arrangement if fitted. Stop the engine and close the fuel valve if required.
- 3. Wait for all blades, belts, tracks and wheels to stop, then prevent restart before cleaning or adjustment. Lower or support attachments so they cannot fall.

Stop for an abnormal response

Stop for unexpected movement, fuel or fluid leakage, severe vibration, persistent smoke, abnormal heat or failure of a safety control. Prevent restart and use the troubleshooting checks. Do not bypass a protective device or repeat unsuccessful starting attempts.

5 Maintenance and troubleshooting

Isolate before maintenance

Stop, wait for all motion to cease and let hot parts cool. Remove the key where fitted and prevent ignition or electric starting by the approved method. Diesel and petrol systems require their own starting isolation. Relieve fluid pressure and support raised or stored-energy parts before work.

When / responsibility	Required attention
Before each use	Inspect guards, blades, retainers, control cables, fluid levels, tyres/tracks and leaks.
After use, cool and isolated	Remove soil and plant material with suitable tools. Inspect for bent blades, wound wire and loose fixings. Keep water out of the engine and electrics.
At the specified service interval	Follow engine and transmission schedules separately. Check clutch, belt/chain/track settings using the model-specific limits.
Qualified service only	Clutch adjustment outside routine checks, gearbox repairs, governor settings, damaged guards and attachment drive repairs.

Use the exact calendar/hour service schedule, lubricant specifications and approved parts for this configuration. Severe dust, debris or load can require additional inspection. Confirm the first service and next due service during handover; obtain torque, clearance, belt or blade settings before an adjustment.

Safe fault checks

Symptom	Possible cause	Safe response
Will not travel / cultivate	Neutral selected, drive disengaged, obstruction or drive fault.	Stop and isolate before inspection. Do not tighten a moving belt.
Moves with drive released	Incorrect adjustment or clutch/control fault.	Stop use immediately; restore correct safe control response before reuse.
Poor depth / machine jumps	Excessive load, hard ground, incorrect setup or attachment damage.	Stop, inspect and reduce pass depth. Confirm the attachment is suitable.
Gear difficult to engage	Drive not stopped, clutch fault or incorrect adjustment.	Do not force the selector. Stop and obtain service if unresolved.
Severe vibration	Loose or damaged blade/retainer or another mechanical fault.	Stop immediately, isolate and inspect before restart.

Request service for a failed safety control, damaged guard, fuel leak, burnt insulation, pressure that cannot be relieved or persistent abnormal movement/vibration. Do not open pressurised fuel lines, adjust injection equipment or work on live electrical parts. Record operating hours, load/material, indications and whether the fault occurs cold, warm, unloaded or under load.

6 Storage and service handover

Transport and storage

Stop and cool the equipment, remove debris and secure fluids against leakage. Use rated lifting equipment, approved lifting/restraint points and the permitted transport attitude. Allow for fluids and attachments when assessing mass. Never lift by guards, controls or fittings, and do not transport a running engine.

Use the engine-specific fuel and corrosion-protection procedure for the storage period. Store dry and ventilated away from ignition sources. Protect liquid-containing equipment from frost using its approved draining method. Maintain a fitted battery by its own instructions. Before reuse, inspect for leaks, corrosion and damage, then repeat the fluid, guard, control and pre-start checks.

Keep the confirmed information

Confirm the exact model, serial number and fitted controls. Confirm fuel grade, oil specification, fill/check method and scheduled service intervals for the supplied engine. Confirm assembly details, tightening torques and replacement-part references before any repair. Confirm safe working limits, guard/interlock checks and implement or blade service settings for the supplied configuration.

Record each service: date, operating hours, work completed, approved parts and the next service due. For engineering handover, retain the confirmed settings and the reference to the configuration-specific instructions.

MLBE support: mlbepower.com. Quote the model, serial number and document reference **MLBE-17394-EN-GB-UM**. Retain purchase and service records. Warranty terms are those supplied with the product; this manual does not add coverage.