

MDL POWERUP LIMITED
Dalston Carlisle



OPERATORS MANUAL

15HP PETROL LOG SAW



 Please read through manual thoroughly before operation 



For any technical issues please call the
workshop on 01228 712121

Or email info@mdlpowerup.com

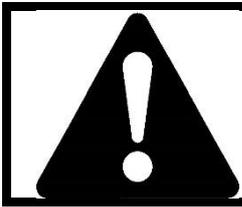
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PRODUCT MODELS

Engine	177FA, 15.0HP, single-cylinder, air-cooled, 4 strokes OHV single cylinder, horizontal shaft,
Engine certificate:	CE
Bore x stroke	77mm x 58mm
Displacement	270ml
Compression ratio	8.2:1
Max. Power output	6.6kw/4000rpm
Fuel tank capacity	6.0L
Engine oil capacity	1.1L
Fuel consumption	374G/kw. H
Start type	Recoil or Electric
Cutting diameter	30-270mm
Max. Length of log	1.15meter
Coupler Size	50mm
Operation height	125cm
Blade	700x30x3mm, 64Z
Products Size (L x W X H)	1050x 850x 1100mm
N.W./ G.W.	193.00/234.00kgs
Wheel	400mm diameter size wheel, 200mm rim, TUBELESS, 4.8-8

SAFETY INSTRUCTIONS



Before operating the your AGF flail mower, please read the following safety instructions. Failure to comply with these warnings may result in serious injury or death.



Please review these safety instructions with all users annually.



SIGNAL WORDS: The signal words DANGER, WARNING and CAUTION are used with the safety messages in this manual and with each safety sign. They are defined as follows:

DANGER: Indicates an immediate hazardous situation that, if not avoided, could result in serious injury or death. This signal word is to be limited to the most extreme situations typically for machine components that, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practice.

These instructions have been written in a way which facilitates learning of how to safely operate your saw.

Here is a guide on how you should read these instructions:

- Read these instructions before use.

Pay special attention to the safety instructions

- These instructions are intended for persons having a basic technical knowledge of the operation of machines such as the one described here.

If you have no experience whatsoever, we strongly recommend to seek the advice of an experienced person.

- Keep all documents supplied with this machine for future reference. Retain proof of purchase in case of warranty claims.

- If you lend or sell this machine to be sure to have all machine documents supplied go with it.

- The equipment manufacturer is not liable for any damage resulting from neglect of these operating instructions.

2.1 Specified conditions of use

This machine is only intended for cutting firewood as detailed in these instructions' or other use is not as specified. Unspecified use, modifications to the machine, or use or parts not tested and approved by the equipment manufacturer may cause unforeseeable damage! This machine is intended for operation by ONE person.

Other persons shall keep a sufficient distance to the machine.

Observe the permissible dimensions of logs to be cut (see "Technical Specifications").

Never cut several workpieces at the same time-and also no bundles containing several individual pieces. Risk of personal injury if individual pieces are caught by the saw blade uncontrolled. Never cut log containing the following:

- ropes
- strings
- cords

Do not overload machine- use it only within the performance range it was designed for (see "Technical specifications")

Use this machine out of doors only.

2.2 General safety instructions

When using this machine observe the following safety instructions, to exclude the risk of personal injury or material damage.

Please also observe the special safety instructions in the respective chapters; where applicable, follow the legal directives or regulations for the prevention of accidents pertaining to the use of circular saw.

General hazards!

1. Be alert. Know what you are doing. Set out to work the reason. Do not operate machine while under the influence of drugs, alcohol or medication.
2. Keep your work area tidy-a messy work area invites accidents.
3. Regularly clear the work area of the cut logs.
4. Prevent adverse body positions. Ensure firm footing and keep your balance at all times.

5. Consider environmental effects:

Provide proper lighting.

Do not operate machine near inflammable liquids or gases.

This machine shall only be started and operated by a person familiar with circular saw and who is at all times aware of the dangers associated with the use of such machine.

Keep bystanders, particularly children, us of the danger zone. Persons under 18 years of age shall use this machine only in the course of them vocational training, under the supervision of an instructor.

Do not permit other persons to touch the machine while it is running.

Risk of personal injury and crushing by moving parts!

Do not operate the machine without installed guard.

Keep sufficient distance to driven components when operating the machine.

Ensure the machine is disconnected from power supply before servicing.

Ensure that when engine start (e.g. After servicing) no tools or loose parts are left on or in the machine.

Turn engine off if the machine is not used.

Hazard generated by modification of the machine or use of parts not tested and approved by the equipment manufacturer!

Use only parts approved by the equipment manufacturer.

This applies particularly to:

- Saw blade (see "Technical specifications")
- Safety devices (see "Spare parts list")

Do not change any parts.

Hazard generated by machine defects!

Keep machine and accessories in good repair.

Observe the maintenance instructions.

Before any use check machine for possible damage:

Before operating the machine all safety devices, protective guards or slightly damaged parts need to be checked for proper function as specified.

Checked to see that all moving parts work properly and do not jam.

All parts must be correctly installed and meet all conditions necessary for the proper operation of the machine.

Damaged protection devices or parts must be repaired or replaced by a qualified specialist.

Keep handles free of oil, grease and resin.

2.3 Safety devices Motor protection

The engine motor protection stops the motor by over-current detection, should the motor be locked (e.g. by a jamming saw blade)

The feed rocker allows for a safe feeding of the logs to be cut.

When the feed rocker is released it must automatically return to its starting position.

Blade guard

During operation the blade guard must always be installed. It must not show any signs of damage.

2.4 Warning symbols

Disregard of the following warning could lead to severe personal injury or material damage.

Wearing hearing protection.

Use this machine out of doors only.

3.1 Unpacking

Hazard generated by missing parts!

To prevent accidental starting that could cause possible serious personal injury, assemble all parts to your machine before connecting it to power

supply. This machine should never be connected to power supply when you are assembling parts, making adjustments, installing. Carefully remove all parts from the carton and place the machine on a level work surface. Separate and check against the list of loose parts. If any parts are missing, do not operate this machine until the missing parts are replaced. Failure to do so could result in serious personal injury. Do not discard the packing materials until you have carefully inspected the machine, identified all parts, and satisfactorily operated this machine.

Note:

If any parts are damaged or missing, do not attempt to plug in the power cord and turn the engine off until damaged or missing parts are obtained and are installed correctly.

Please take note of the following safety information before operating the machine!

Also follow the safety instructions given at the beginning of this manual!

Hazard generated by machine defects!

Before starting work, check to see that the following are in proper working order:

1. Saw blade (firmly mounted? Undamaged? Sharp? Sufficient distance to other parts?)
2. Blade guard (Undamaged? Sharp? Sufficient distance to other parts?)
3. Feed rocker (must automatically return to the starting position)
4. Power cable, power cable plug and switch (if damaged, have replaced to a qualified electrician)
5. Motor brake (after switching OFF maximum 10 seconds post-running of saw blade)

Risk of injury by inhaling wood dust!

Dust of certain timber species (e.g. oak, beech, ash) can cause cancer when inhaled:

1. Work only out of doors.
2. When working, take care that as little wood dust as possible will get into the

surroundings.

3. Remove wood dust depositions in the work area (do not blow away!)

Hazard generated by insufficient personal protection gear!

1. Wear suitable work clothing, providing protection against falling logs.

2. Wear hair protection.

3. Wear safety glasses.

4. Wear dust mask.

5. Wear non-slip safety shoes.

6. Take care that no parts of your body or clothing are caught by rotating components (do not wear ties or loose fitting garment, contain long hair with a hairnet)

Risk of personal injury and crushing by moving parts!

1. Do not operate the machine without installed guards.

2. Keep sufficient distance to driven components when operating the electric tool.

3. Do not remove small cut-offs, splinters, etc. from near the rotating saw blade by hand.

4. Always use the feed rockers to feed the logs to be cut.

5. Always hold the feed rockers with both hands at its handle.

6. Assume proper operating position:

- At the front of the saw;
- In the front of the saw;
- Offset to the line of cut.

7. After each cut return the feed rocker completely to its starting position.

Hazard generated by pieces of wood being hurled away!

1. Always place curved logs on the feed rocker with the curved side facing the saw blade.
2. Do not jam the logs to be cut.
3. Do not attempt to stop the saw blade by pushing the workpiece against its die.
4. Always use sharp saw blades.
5. If in doubt, inspect the logs for foreign matter (e.g. Nails or screws).
6. Never cut several logs at the same time-- and also no bundle containing several individual pieces. Risk of personal injury if individual pieces are caught in the saw blade uncontrolled.

4.1 Cutting

1. Start machine and let the motor reach full speed.
2. Place a log on the feed rocker.
3. To make the cut, push the feed rocker with both hands at the handle towards the saw blade:
 - Exert only so much pressure that the motor speed does not fall off.
 - Push feed rocker forward until it hits the stop.
4. Return feed rocker completely to the starting position.

Note:

If the log was not completely separated, turn it over and repeat, the cutting operation from the opposite side (reversing cut).

5. Remove the cut off piece from the feed rock- make next cut...
6. If no further cutting is to be done immediately afterwards, turn machine OFF.

Prior to all servicing:

- Turn machine OFF;
- Wait for saw blade to complete stop;

1. Check that all safety devices are operational again after each service.
2. Replace damaged parts, especially safety devices, only with genuine replacements parts since parts not tested and approved by the equipment manufacturer can cause unforeseeable damage.
3. Repair and maintenance work other than described in this section should only be carried out by qualified specialists.

5.1 Saw blade change

Directly after cutting the saw blade can be very hot- burning hazard! Let a hot saw blade cool down. Do not clean the saw blade with combustible liquids. Risk of injury, even with the blade at standstill. Wear gloves when changing blades.

When assembling, observe the direction of rotation of saw blade!

1. Loosen 3 bolts fixing the outer blade guard, and remove the outer blade guard.
2. Hold outer flange with spanner and loosen the nut by spanner.
3. Remove the nut and outer flange from the saw spindle.
4. Take the saw blade off the saw spindle.
5. Clean clamping surfaces of:
 - saw spindle;
 - Inner flange;
 - Saw blade;
 - Outer blade flange;
 - nut.

Do not use cleaning agents (e.g. To remove resin residue) which could corrode the light alloy components; this can have an adverse effect on the machine's stability.

Do not clean the saw blade with combustible liquids.

6. Install new saw blade, observing the direction of rotation.

Do not use:

- saw blades made of high speed steel (HS or HSS);

- saw blades with visible damage;
- cut-off wheel blades.

5.2 Saw storage

Store saw so that

- it cannot be started by unauthorized persons, and
- nobody can get injured.

Caution!

Do not store saw unprotected outdoors or in damp environment.

Note:

Always install the transport brace before transporting the saw.

To keep the saw blade from rusting, spray with cleaning and maintenance spray (optional accessory) before storing it for a longer time.

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5.3 Maintenance

Every 50 hours of operation

Check all screwed connection, tighten if necessary (Rocker and rocker stop must remain movable).

Check saw blade for firm seat, wear and sharpness.

Remove any deposits that may have build-up inside the saw blade cover.

6.1 advantage:

Motor brake

The motor brake brakes the saw blade after the machine has been turned off. With an intact more brake the post-running of the saw blade shall not exceed 10 seconds.

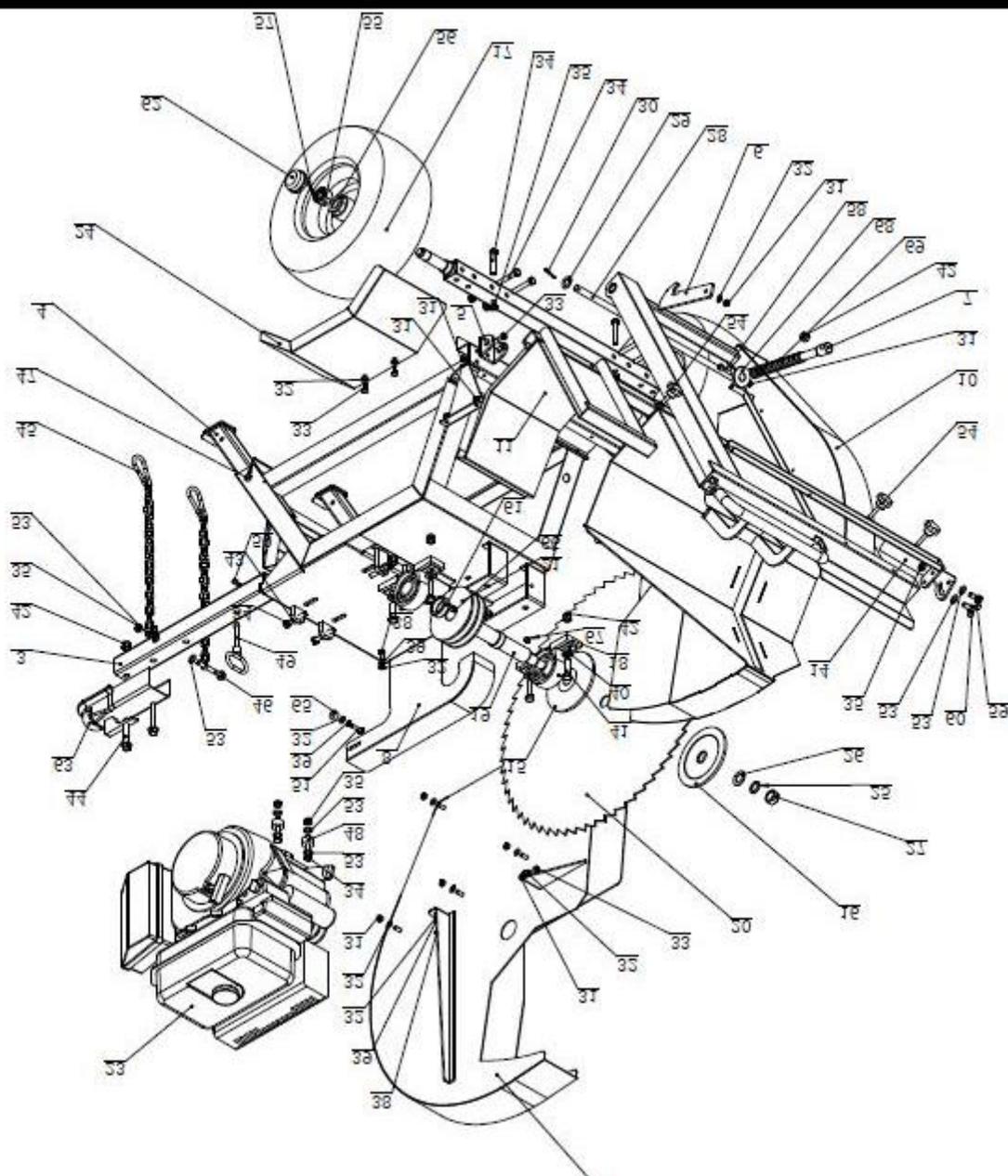
6.3. Log splitter function

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Splitter cone diameter 60mm, 45# steel

Max. Diameter of tree splitter 220mm

Max. Length of tree splitting 300mm up to 500mm



Part No.	Stype	Chinese Name	Name	Specification	Quantity
1	YMJ700-1	底座	Base Frame		1
2	YMJ700-1.2	轮轴	Axle		1
3	YMJ700-1.3	牵引杆	Draw Bar		1
4	YMJ700-1.4	支腿	Support Leg		2
5	YMJ700-1.5	转臂安装板	Tumbler Installation Plate		2
6	YMJ700-1.6	转臂锁板	Tumbler Lock Plate		1
7	YMJ700-1.7	弹簧轴	Spring Shaft		1
8	YMJ700-1.8	皮带罩	Belt Cover		1
9	YMJ700-2	锯片护罩	Blade Cover		1
10	YMJ700-3	转臂	Tumbler		1
11	YMJ700-3.2	转臂延长板	Tumbler Extended Board		1
12	YMJ700-3.3	压料手把	Pressure Handle		1
13	YMJ700-3.4	标尺	Scaleplate		1
14	YMJ700A-3.5	标尺顶板	Scale Roof		1
15	YMJ700-1.10	锯片固定盘	Blade Fixed Disk		1
16	YMJ700-1.11	锯片夹紧盘	Blade Clamping Plate		1
17	16X6.5-8	宽轮胎	Tyre		2
18	GB/T 7810-1995	带立式座轴承 UCP207	Bearing		2
19	YMJ700-1.9	主轴	Principal Axis		1
20		锯片	Blade		1
21	YMJ700-1.12	大带轮 140	Large Belt-wheel		1
22	YMJ700-1.13	小带轮 65	Small Belt-wheel		1
23		发动机	Engine		1
24	P610-03-1.20	宽轮胎挡泥板	Fender		2
25	GB/T 93-1987	标准型弹性垫圈	Standard Elastic Washer	20	1
26	GB/T 95-2002	平垫圈 C 级	Flat Washer C	20	1
27	GB/T 41-2000	六角螺母	Hexagon Nut	M20	1
28	YMJ700-1.15	转臂轴	Tumbler Shaft		1
29	GB/T 95-2002	平垫圈 C 级	Flat Washer C	16	2
30	GB/T 91-2000	开口销	Split Pin	4X40	2
31	GB/T 889.1-2000	非金属嵌件六角锁紧螺母	Prevailing Torque Hexagon Nut	M8	17
32	GB/T 95-2002	平垫圈 C 级	Flat Washer C	8	16
33	GB/T 5781-2000	六角头螺栓	Hexagon Headed Bolt	M8X16	9
34	GB/T5781-2000	六角头螺栓	Hexagon Headed Bolt	M10X60	14
35	GB/T 889.1-2000	非金属嵌件六角锁紧螺母	Prevailing Torque Hexagon Nut	M10	12
36	GB/T 95-2002	平垫圈 C 级	Flat Washer C	6	1
37	GB/T 93-1987	标准型弹性垫圈	Standard Elastic Washer	6	1

38	GB_T 5781-2000	六角头螺栓	Hexagon Headed Bolt	M8X20	3
39	GB/T 93-1987	标准型弹簧垫圈	Standard Elastic Washer	8	5
40	GB/T 95-2002	平垫圈 C 级	Flat Washer C	12	4
41	GB/T 5781-2000	六角头螺栓	Hexagon Headed Bolt	M12X45	4
42	GB/T 889.1-2000	非金属嵌件六角锁紧螺母	Prevailing Torque Hexagon Nut	M12	7
43	GB/T 41-2000	六角螺母	Hexagon Nut	M10	4
44	GB/T 5789-1986	六角法兰面螺栓	Hexagon Flange Bolt	M12X75	2
45	IMS-B001	安全链	Security Chain		2
46	GB/T 5789-1986	六角法兰面螺栓	Hexagon Flange Bolt	M10X75	1
47	778916	D 型销	Pin D type		2
48	P610-03-1.39	发动机胶垫	Engine Rubber Mat		4
49	12397.1	拉拔销	Drawing Pin		1
50		B 型销	Pin B tyre	φ2.5	1
51	GB_T 5781-2000	六角头螺栓	Hexagon Headed Bolt	M8X30	2
52	GB_T96-2002	大垫圈	Big Plain Washer	10.5X30X2	1
53	GB/T 95-2002	平垫圈 C 级	Flat Washer C	10	12
54		M8 五星手柄	M8 Five-star Handle		3
55	GB/T 6181-1986	六角开槽薄螺母	Hexagon Thin Slotted Nut	M24	2
56		平垫圈	Flat Washer	26X45X3	1
57	GB/T 91-2000	开口销	Split Pin	4X50	2
58	GB/T 70.1-2000	内六角圆柱头螺钉	Hexagon Socket Cap Screw	M8X30	1
59	GB/T 5781-2000	六角头螺栓	Hexagon Headed Bolt	M10X25	1
60		蝶形螺钉	Thumbscrew	M10X20	1
61	YMJ700-1.16	隔套	Spacer Bush		1
62		宽轮胎防尘盖	Dust Cover		2
63		美式球罩	Hitch Ball		1
64	YMJ700-3.3.3	转轴紧定螺丝	Tumbler Holding Screw		2
65	YMJ700-1.8.1	皮带罩隔套	Belt Cover Casing		1
66	GB/T 1096-2003	普通平键	Parallel Key	10×30	1
67	GB/T 1096-1979	普通平键	Parallel Key	8X12	1
68		平垫圈	Flat Washer	20X50X3	1
69		弹簧	Spring		1

Warranty

MDL warrants to the original purchaser that this MDL product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall Unit and Driveline: One-year Parts and Labour
Gearbox: One year on all components.

Blades and Belts: Considered wear items.

This Warranty is limited to the replacement of any defective part by MDL and the installation by the dealer of any such replacement part, and does not cover common wear items. MDL reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in MDL's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty should be made to the dealer which originally sold the product and all warranty adjustments must be made through an authorized MDL dealer. MDL reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render MDL liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, MDL shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labour, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

Your Warranty starts from the date the machine was delivered / collected.



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