

MORRISON®

ELECTRIC SHREDDER



Owner's Manual

IMPORTANT

To reduce risk of fire, burn hazard or other injury, please read these instructions carefully before assembling, operating and maintaining this machine. Keep this instruction manual in a safe place for future use.



Do not operate this machine before it has been assembled correctly and you have read and understood these instructions.



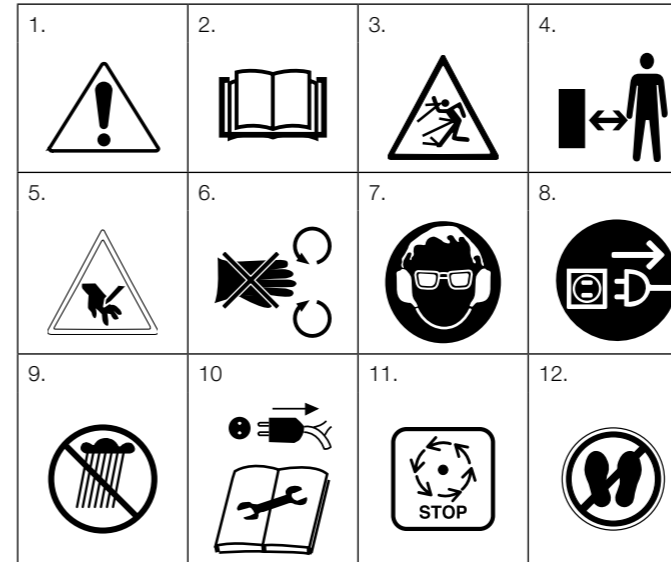
These instructions are intended as a general guide and do not supersede national or local codes in any way. Contact local Authorities for clarity of laws relating to operation of this appliance.

Keep the instructions in a safe place for future use.

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Symbols on the Machine



1. Read instruction manual
2. Take particular care and attention
3. Objects may be thrown out at high speed
4. Keep bystanders and pets away from danger area
5. Danger - Rotating blades. Keep hands and feet out of openings while machine is running
6. Danger - Rotating blades. Keep hands and feet out of openings while machine is running
7. Wear eye and ear protection
8. Unplug machine when not in use
9. Do not expose to rain or moisture
10. Switch off the motor and unplug before servicing, cleaning, maintenance or repairing

Symbols in this Owner's Manual



Threatened hazard or hazardous situation.
Not observing this instruction can lead to injuries or cause damage to property.



Important information on proper handling.
Not observing this instruction can lead to faults in the machine.



User information. This information helps you to use all the functions correctly.

Proper Use

For safety reasons, the Electric Shredder is not to be used by children, young people under 16 years of age, or any other persons who are not acquainted with these directions for use.



Specific safety information Please read this safety information and the directions for use carefully and be sure to follow the instructions to the letter.

Safety Instructions

- The shredder must be assembled correctly before use.



Warning!
If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



Warning!
This appliance must be earthed!
Use only three core extension cables with the earth wire connected.
For your safety you must use an isolating transformer or an R.C.D. device between the power supply and the extension cable.

- Only use extension cables that are approved for outdoor use and check that they are in good condition before use.
- Protect the cables from damage by heavy mechanical use, sharp edges, contact with moving parts and corrosive liquids, etc.
- Warning! Do not use an extension cable that shows signs of damage. Fit a complete new cable - do not undertake any permanent or temporary repairs. Have the cable replaced by a qualified technician.
- Use only IEC60245 (H07RN-F) extension cable for outdoor use with splash-proofed connector. Its cross section must be at least 1.5 mm² for cable lengths up to 25 m, and 2.5 mm² for cable lengths over 25 m.
- When using the extension cable, make sure that it does not interfere, is not squeezed or bent, and the plug does not get wet.
- When using a cable reel, wind the cable completely off the reel.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the machine. Keep cord away from

- heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- Check the extension cable regularly for damage to the insulation. Replace it if damaged.
- Before inserting the plug in the mains socket, make sure that the socket ratings are correct and correspond to those indicated on the rating label on the shredder.
- Always disconnect the machine from the mains supply before transporting it to other places.
- Always switch off the shredder before disconnecting any plug and socket connector or extension cables.
- Never leave the shredder unattended while it is switched on.
- Before leaving the shredder, switch off the motor and disconnect the plug. Do likewise in the event of a power failure.
- Keep children and pets away. All onlookers should be kept a safe distance away from the shredder when it is in use.
- Do not allow children or any person who has not read this instruction leaflet or who is not familiar with the shredder to operate it.
- The operator is responsible for third parties while working with the shredder.
- Only use the shredder for its designed purposes.
- Never deactivate or bypass the protective devices.
- When using the machine outdoors, always use a residual current-operated circuit-breaker (RCD) with an operating current of 30 mA or less.

Operation

- The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction.
- Children must be supervised not to play with the appliance.
- Keep your face and body away from the inlet opening.
- Never let your hands or other part of the body or clothing be placed inside the inlet and discharge opening, or near moving parts. It may result in serious injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations. Do not stand at higher level than the base of the machine when feeding material into it.
- Always keep distance from the discharge opening during operation.
- Observe regional regulations for noise protection.
- Do not feed rock, a piece of metal, bottles or other foreign matter. Pay attention that those foreign objects are not included when you feed.
- Immediately switch off the motor and unplugged if the blade strikes a foreign object or the machine starts vibrating or making unusual noise. Check the shredder for damage, and tighten any loose parts. Ask an authorized service center to repair the machine.
- Do not let the processed material accumulate in discharge opening. Otherwise it may result in kickback of material through the inlet opening.
- Switch off the motor and unplug before:
 - Leaving the machine unattended
 - Before clearing a blockage or any fault
 - Before checking, cleaning or working on the machine
 - Before making any adjustments, changing accessories or storing
 - Whenever the machine starts vibrating or making unusual noise
 - Clearing inlet or discharge opening
 - Attaching or removing retaining basket
 - Transporting

- Do not force the machine. It does the job better and safer at the rate for which it was designed. Frequent overload may

- cause motor damage or fire.
- Use the right appliance. Do not use appliances for purposes not intended. Not intended to feed metal parts, glasses, stones, ceramics, plastics, thicker branches, hard wood or thick wood plates, etc.
- Caution! There is a rotating blade on this machine.
- Caution! Blade does not stop immediately after switching off.
- Always switch off the shredder, disconnect the plug and wait until the cutting disc stops before carrying out maintenance or cleaning work.
- Use caution when cleaning or performing maintenance on the shredder. DANGER! Watch your fingers! Wear gloves!
- Do not move or modify any of the electrical and mechanical safety devices.
- The shredder has to stand on level and solid ground during operation.
- Use only in daylight or good artificial light.
- Wear gloves and safety goggles while shredding.
- We recommend the use of ear muffs.
- Caution! The hopper must be fitted and tightened completely before use.
- Do not put your hands into the feed funnel and ejection slot.
- During operation ensure that no foreign objects (such as stones, glass, metal, earth, plastics) are fed into the shredder; these foreign objects could cause blunting of the blade and seriously damage the motor. Do not use your shredder for purposes other than for its intended use.
- If the shredder should start to vibrate abnormally, switch off the motor and check for the cause immediately. Vibration is generally a warning of trouble.
- Ensure blade is secure before shredding. Do not operate the shredder if the blade is not properly mounted.
- The shredder should be checked carefully before use. You should only work with a shredder that is in good condition. If you notice any defect on the machine that may cause danger to the operator, do not operate the shredder until defects are rectified.
- Replace worn or damaged parts for safety. Use only original spare parts. Parts not produced by manufacturer may cause poor fit and possible injury.
- Use the shredder only in places where it is protected from water and never use it outdoors in rainy weather.
- Store in a dry secure place out of reach of children.



Warning!

Failure to adjust the cutting plate correctly can cause damage to the machine. If required, adjust the cutting clearance following instructions on page 8.

Maintenance instructions

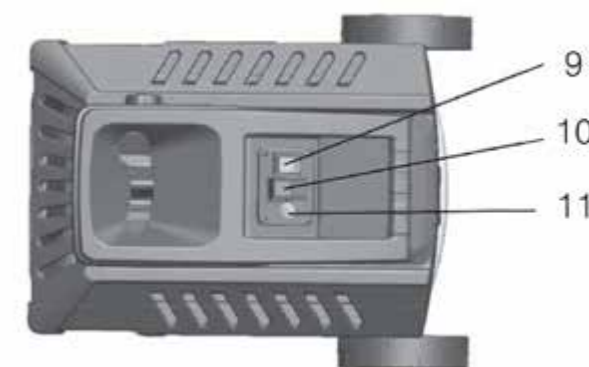
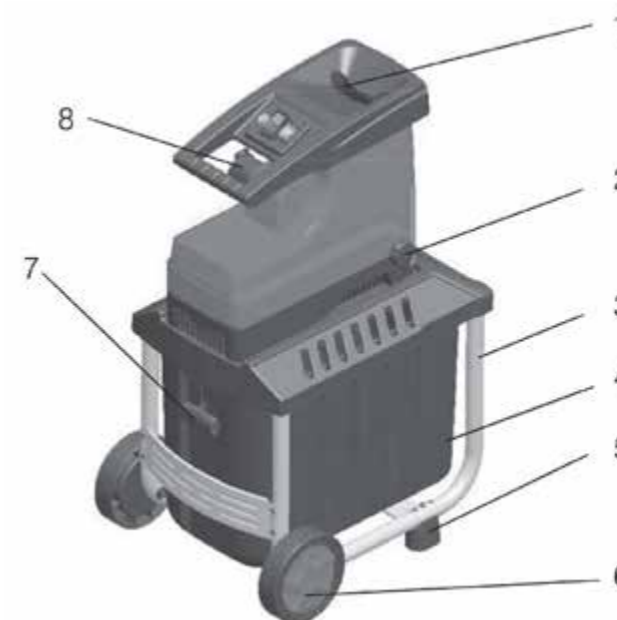
- Have your machine serviced by our authorized service centre, always using only genuine replacement parts.
- Incorrect repair and poor maintenance can shorten the life of the machine and increase the risk of accidents.
- Before servicing, inspection, adjustment, storage, or to change an accessory, take following steps:
 - Shut off the power source
 - Disconnect the machine from power supply
 - Make sure that all moving parts have come to a complete stop
 - Allow the machine to cool.
- Inspect the machine for possible damage:
 - Whether safety devices work properly for its intended function
 - Whether all the moving parts work smoothly and adequately
 - Whether all parts are not damaged and properly installed
 - Replace or repair by our authorized service centre if there are any damaged parts.
- Pay extreme attention when servicing cutter. The cutter is

able to move manually tough interlock feature of the guard functions.

- Do not clean the device with water. It may cause electrical shock.
- Wear protective gloves during maintenance or assembly work to prevent injury to fingers.
- Do not carry out maintenance or repair work other than that described in this instruction manual. Any other work must be carried out by authorized service centre.
- Only use original replacement parts and accessories intended for your machine. Otherwise it may result in personal injury or damage on the machine.
- Store the machine in a dry room. Keep it out of reach of children. Never store the machine outdoors.

List Of Parts

1. Feeding funnel
2. Knob
3. Support
4. Grass Box
5. Support Foot
6. Wheel
7. Interlock switch pusher
8. Appliance inlet
9. Rotational direction switch
10. On/Off switch
11. Reset button/overload protector



ITEM	PICTURE	NAME	AMOUNT
1		1. Wheel	2
		2. Cover of Wheel	2
2		3. Cover of support foot	2
		4. Support	2
3		5. Bolt	2
		6. Gasket	2
		7. Bushing	2
		8. Washer	2
		9. Nut	2

ITEM	PICTURE	NAME	AMOUNT
4		10. Self-locked nut	2
		11. Bolt	2
5		12. Bolt	3
		13. Gasket	3
6		14. Main Part	1
7		15. Support	1
8		16. Grass Box	1

ACCESSORIES			
1		Spanner	1
2		Spanner (10-13)	1

Assembly

CAUTION: Always be sure that the machine is switched off and unplugged before carrying out any work on the tool.

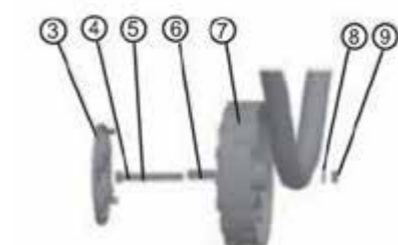
1. Open the package and remove the machine from package;
2. Pull out the grass box and take out the main part of the machine and accessories;



(1) mainframe

(2) accessories

3. Mount the wheel and support foot;



(3) cover of wheel (4) bolt (5) gasket (6) bushing (7) wheel (8) washer (9) nut



(10) nut (11) support (12) cover of support foot (14) bolt

4. Put the main part of machine on the undercarriage, put the support on it, and fix it using 3 M6X40 screws.



Functional Description



WARNING

Before plugging in the machine, always make sure that the machine is switched off. Plugging in the machine with the switch on may cause an unexpected start resulting in serious personal injury.



CAUTION:

Do not use the machine if the switch does not turn it on and off. Have defective switches replaced by authorized service centre.
To turn on the machine, push the green button.
To turn off the machine, push the red button.



(1) start button (2) stop button (3) running button (4) reverse button (5) reset button (overload protector)

Unintentional restart proof

The motor is equipped with a safety switch and switches off automatically when overloaded (e.g. blocking up of the cutting blades). After a cooling-down break (approx. 5min), the motor may be restarted. Press the

1. reset button (overload protector)
2. green button "1" to restart

Overload protection

The motor is equipped with an overload protection. When overloaded, the machine acts as follows:

- The blade runs reverse for two or three seconds to try to push the shredded material back out.
- The blade runs forward again.
- If the material is still clogged after this attempt for three times, the machine stops with LED light flickering in red.

When it happens perform the following steps:

- Turn off the machine.
- Wait until the blades stop completely.
- Remove the clogged material.
- Turn the shredder on again after about 5 minutes, and feed easier material.
- If you cannot turn on the machine after this waiting time, refer to "Troubleshooting".



Forward / Reverse switch

CAUTION:

Switch off the shredder before changing the forward / reverse switch.

Position ⇩

The blades rotate in forward direction.

Position ⇧

The blades rotate in reverse direction to release jammed material.

NOTE:

- Several repetitions of reverse and forward operations may be required to shred a large object.



CAUTION:

- Always use a hook or a stick to remove jammed objects to prevent accidents.
- Always wait until the shredder stops completely before restart.



Retaining basket

CAUTION:

- Switch off and unplug the machine before attaching or removing the retaining basket.
- Check the functionality of the interlock feature every two hours for safe operation.
- Never attempt to override the interlock feature of guarding.



Lock lever:

Upper position → Retaining basket is locked.

Lower position → Retaining basket is unlocked.



ATTENTION:

The machine will not start if the lock lever is in the "unlock" position. The machine automatically stops if the retaining basket is unlocked during operation.



Blade cover

CAUTION:

- Make sure that the machine is switched off and unplugged before opening the blade cover.
- Wear protective gloves before opening the blade cover.
- The cutter does not stop immediately after switch off. Wait until all the parts stop.

In case the material clogs badly in the upper enclosure, remove them by opening the blade cover.

Operation

Set up the machine:

- On a flat, horizontal surface. Do not place the machine on paved or graveled ground.
- With a safe distance (at least 2 m) away from walls or other objects.

Before starting, make sure that:

- The connection cables are not damaged. If there are cuts or tears, stop operation and replace it immediately.
- There is no damage on the machine, and all screws are tight.
- The machine is assembled completely and correctly.
- If required, adjust the cutting clearance according to the instructions on page 8
- The locking lever is in the "lock" position

Check the mains connection:

- Make sure that the mains voltage matches the rated voltage on the nameplate and the machine is properly earthed.
- Use only extension cords with sufficient core cross-section.

The shredder can process following types of material:

- All types of branches up to the maximum diameter of the machine's capacity, depending on type and condition of wood.

- Garden refuse such as withered plants or wet weed which has been laid some days (Feed them alternating with branches.)

The shredder can NOT process the following types of material:

- Glass, metal, plastic, stones, ceramics, thicker branches, hard wood, thick wood plates, cloth, plastic bags, roots with soil.
- Garbage which is almost liquid state, e.g. kitchen garbage.

Operation: (Fig. 1)

- Feed the material into the filling hopper from the right side.
- In case of branches, twigs and wood, shred them just after they are cut. They may get very hard as they become dry.
- Remove any side shoots from branches if they are not easy to feed.
- Turn off the motor and disconnect the machine from the mains power supply before cleaning ejection opening.
- Do not let the shredded material accumulate in ejection opening. Otherwise shredded material may block the ejection opening. Empty the retaining basket regularly. The retaining basket is transparent and it is easy to see when it is full.
- Do not feed material which is more than the maximum branch diameter specified in Technical data. Depending on the wood's freshness and condition, the maximum branch diameter may be smaller.
- Shredding wet garden waste results in a clog. To prevent the machine from clogging, alternate waste with wood containing material.
- Soft material or wet branches may be torn instead of being cut. Worn counter blade may also cause this problem.

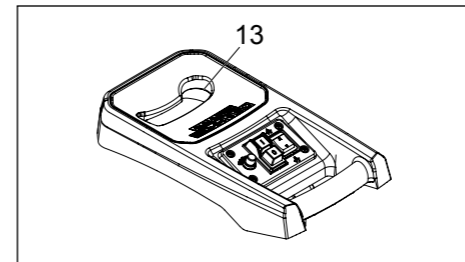
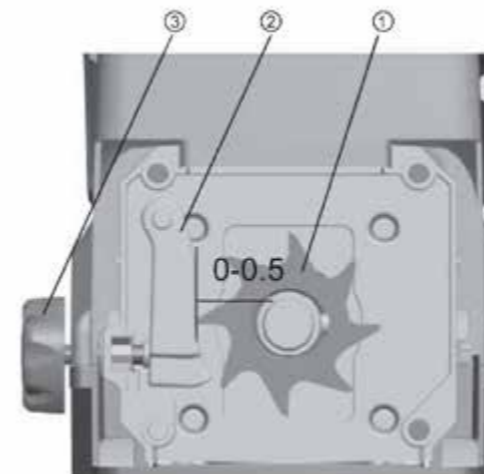


Fig. 1

Adjusting the blade clearance

For an effective operation, adjust the clearance between the counter blade and cutting roller, if required.



Warning!

Failure to follow these instructions will cause damage to the machine

The best distance baffle (2) and cutting blades (1) is 0-0.50mm. This distance should be kept to achieve effective operation. There is an adjusting device (knob) (3) on the left side of the plastic housing. The knob is on the tightest condition (the distance is 0mm from baffle and cutting blade) when you get the machine (that means you could not turn anti-clockwise the knob anymore). You can turn clockwise by half circle to achieve the distance 0.5mm.

REVERSE SWITCH

The shredder is fitted with a Reverse switch to enable the removal of jammed material. If material becomes jammed stop the machine by pressing the OFF button. When the machine has come to a complete stop change the direction of rotation of the machine by pressing reverse arrow of reverse switch and pressing the ON button (note that the machine will not latch ON while in reverse -- the button has to be held down). When the blockage has cleared stop the machine and return the Reverse switch to its original position. Do not continue to run the machine in reverse mode as this could cause injury to the operator or damage to the machine.

Maintenance



CAUTION:

- Always be sure that the machine is switched off and unplugged before performing inspection or maintenance.
- Wear protective gloves before performing inspection or maintenance.
- The cutter does not stop immediately after switch off.
- Wait until all the parts stop before performing any maintenance work.
- Make sure that all the tools are removed after maintenance work.
- Never use gasoline, benzene, thinner, alcohol or the like. Discoloration, deformation or cracks may result.
- To clean the machine, use only moist cloth and soft brush.
- Do not hose or clean the machine with high pressured water.

After each operation, perform the following maintenance:

- Check whether all the locking screws are tight (tighten if necessary).
- Lubricate metal parts to protect them against corrosion.
- Keep the vents clean and free from dust.

The cutting roller and counter blade wears out in course of time. Ask your nearest authorized service centre for replacement parts when it is necessary.

Technical Data

Model	LSG2512
Name	Electric Shredder
Motor	AC-Motor 230-240V, ~50Hz
Motor rating P1 S6-40%	2,400W
Motor rating P1 S1	2,000W
Rotational speed cutting roller	40 min ⁻¹
Power switch with	overload protection; cutting and reverse function, zero- voltage initiator
Weight	30 kg
Max. branch diameter (only for freshly cut wood)	Max. 40 mm
Safety class	I
Protection class	IP 24

NOISE DATA

Measured sound power level	90.3dB(A) K=2.83dB(A)
Guaranteed LwA	93dB(A)

The sound intensity level for operator may exceed 80 dB (A). Wear ear protection.

Troubleshooting

WARNING: Before solving troubles, switch off the machine, pull out the mains plug, and wait until the machine stops completely.

Trouble	Possible cause	Remedy
Motor does not start	No power supply	Check mains supply.
	Mains cable defective	Ask authorized service centre for checking.
	Overload protection is activated	Wait until the machine cools down and press the green button.
	Safety cut-out device of the retaining basket (Retaining basket is unlocked)	Check and lock the retaining basket.
Motor sounds but does not start	Cutting roller is blocked	Turn off the device. Switch the forward/reverse switch into reverse direction. Switch on the machine until the jam has been cleared. Switch the machine off again. Turn back the direction of forward rotation.
	Capacitor fault	Bring machine to authorized service centre for repairing.
Shredding material is not drawn into the shredder	Reverse rotation.	Switch off device and switch over direction of rotation selector switch.
	Shredding material caught in filling hopper	Switch off device. Switch the forward/reverse switch into reverse direction. Switch on device to release the material to be shredded, remove any foreign matter. Switch device off again. Turn back the direction of forward rotation.
	Shredding material too soft or wet	Push down with a branch
	Cutting roller worn	Adjust fixed counter blade as described under "Adjusting the blade clearance". If the cutting roller is severely worn, replace it.
Shredding material is not cut cleanly	Fixed counter blade is not adequately adjusted	Adjust the counter blade.
Device starts but blocked by even slight load, and switches off by protective motor switch soon.	Extension cable is too long or cross-section too thin. Socket is too far from mains supply or cross-section of mains cable too thin	Check the extension cable is at least 1.5 mm ² , maximum 25 m long. If using longer cable, minimum cross-section is 2.5 mm

Morrison, a division of Masport Limited
1-37 Mt Wellington Highway
Panmure
Auckland 1060
New Zealand
P: 0800 627 767 (New Zealand)
P: 1300 366 225 (Australia)

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