

Petrol Hedge Trimmer

Includes engines: 1E34FL-S & 1E34FL-E



Owner's Manual

WARNING

**Always wear eye and hearing protection when operating this machine.
Minimize the risk of injury: Read this manual and familiarize yourself with its contents.**

This product is intended for outdoor use only and should be used only in well ventilated areas.

Contents

INTRODUCTION	3
PROTECTION OF THE ENVIRONMENT	3
SYMBOLS	3
TECHNICAL DATA	3
SAFETY INSTRUCTIONS	3
BEFORE THE FIRST USE OF THE MACHINE	4
STARTING THE MACHINE	4
HEDGE TRIMMER FUNCTIONING	5
WORK SAFELY AND WITH PRUDENCE	5
MAINTENANCE INSTRUCTIONS	5
FUEL DATA	5
REPAIRS/ENGINE FAILURES	6

Introduction

Before you start working with your new machine, please read carefully the instruction manual. Please follow the instructions marked as Attention! or Warning!

Protection of the Environment

Please ensure ecological disposal of all materials you do not need any more. Any machinery, oils and packaging should be sorted and deposited at a local recycling centre.

Symbols

You will find a number of symbols on the hedge trimmer. The symbols will provide you with important information about the product or instructions for its use.



WARNING!

When handling the hedge trimmer please follow specific safety measures!



NOTE:

Before you use the trimmer please read the whole instruction manual and make sure you understand it. Non-compliance with the instructions can ENDANGER YOUR LIFE!

	Warning / Attention!
	Please read the instruction manual carefully.
	Wear ear protection!
	Wear eye protection!
	Wear head, eye and ear protection!
	Naked flames in the work area, around the product and in the vicinity of flammable materials are prohibited!
	Wear gloves with saw protection!
	Wear safety antiskid shoes!
	Wear safety helmet!
	Wear face protection!
	Wear protective clothing!

Technical data

Model No.	552837/SLP600S	553065 / SLP600A-E	
Net Weight (kg)	5.7	6.4	
Outward Size	Total Length (mm)	1130	1200
	Total Width (mm)	250	240
	Total Height (mm)	230	235
Blade	Type	Double Sided	double sided
	Total Length (mm)	600	600
Power Transmission Method	Automatic, centrifugal clutch, spur gear, cam-crank	Automatic, centrifugal clutch, spur gear, cam-crank	
Reduction Rate	5.1:1 (46:9)	4.2:1 (63:15)	
Engine	Name of Engine	1E34FL-S	1E34FL-E
	Type	Single cylinder air cooling 2-cycle gasoline engine	Single cylinder air cooling 2-cycle gasoline engine
	Displacement Volume (cc)	25.4	25.4
	Maximum Output (kW/r/min)	0.65/7500	0.6/7500
	Fuel Tank Capacity	0.5	0.6
	Fuel Used	Mixture 30:1 (when using market oil)	Mixture 30:1 (when using market oil)
	Lubricating Oil Used	2-cycle engine oil	2-cycle engine oil
	Carburetor	Diaphragm, rotary valve	Diaphragm, rotary valve
	Sparking Method	IC-controlled fly wheel magnet	IC-controlled fly wheel magnet
	Sparking Plug	L9T	L8RTC
Starting Method	Recoil starter	Recoil starter	
Sound Power Values (db(A))	≤ 95	≤ 95	
Vibration Values (m/s²)	≤ 15	≤ 15	

Vibration test standard & Noise test standard:

LY/T 1619-2004: Garden machinery - Portable powered hedge-trimmers

Safety Instructions

To use the hedge trimmer safely it is important to follow all instructions and information in the instruction manual dealing with safety, assembly and machine operation. Anybody who will carry out machine operation or maintenance should be familiar with the instruction manual. Children should not use the hedge trimmer. When operating this unit the user should be vigilant of proximity to other people, animals and any potential hazards. This hedge trimmer should be used in conjunction with any laws or bylaws. The manufacturer cannot be held liable if unauthorised changes were carried out to the machines and the changes resulted in damage.



CAUTION!

When using machine tools it is important to follow basic preventive measures. Please follow the tips and instructions stated in the additional safety instructions.

- Use the hedge trimmer in safe working conditions.** The Morrison Hedge Trimmer is only designed for outdoors use. Use only outdoors to avoid build up of noxious gases. Always inspect your working area for potential hazards before beginning work.
- Keep a safe proximity to others.** Always maintain a safe distance (outside of swing radius) from any other persons, or animals.
- Ensure safe tool storage.** Machines that are not at use should be stored at a dry place if possible high up alternatively they should be locked away so that other persons could not gain access to them.
- Use the right tool for each job.** Only use the Morrison Hedge Trimmer on work specified by the manufacturer.
- Wear appropriate clothing.** Wear clothes that are strong and not loose fitting when operating machine..
- Use personal protective aids.** Wear safety shoes with steel toe boxes and non slippery soles.
- Wear protective glasses.** Objects can be flung away by the machine.
- Wear hearing protective aids.** Wear hearing protective aids, e.g. ear plugs.

Before the first use of the machine



WARNING!

Before you start using the hedge trimmer make sure it is in a sound operational condition. If you have any doubts, do not start the machine!

Pay attention mainly to the following points:

- Cutting knives are installed in correct position
- All switches are going easily
- Spark plug is installed safely. If the plug is loose sparking can occur followed by ignition of the created mixture of fuel and air.

Before starting the machine all necessary safety and protective devices must be duly installed in their positions.

The cutting knife must be loose enough to move.

Before starting the hedge trimmer make sure the knife is installed correctly and the movable parts are not jammed.



CAUTION!

If in any doubts contact a specialist grade product service person.

9. **Hand protection.** Wear thick gloves – good protection is provided by gloves made of leather.
10. **Hedge trimmer transportation.** Only transport the hedge trimmer when turned off and with blade cover in position.
11. **Do not use hedge trimmer while impaired.** Never use this machine when under the influence of alcohol, drugs or any mind altering substance. Do not use when suffering injury that will affect use.
12. **Switch unit off before refuelling.** Switch hedge trimmer off and allow to cool before refuelling. Never use fuel near naked flame. Be sure to avoid smoking near fuel and machinery.
13. **Usage period and breaks.** After a longer period of usage you might experience problems with blood circulation in your hands due to the vibrations. The period of usage can be extended by wearing suitable gloves and taking regular breaks. Please be aware that the time of usage is lowered by personal dispositions to bad circulation, a low outside temperature or a firm grip of the tool when working.
14. **Watch for damaged parts.** The machine should be carefully inspected before use. If there is damage of any sort this should be assessed, and if necessary repaired by a Garden Product Service person before use.
15. **Make sure that the protective cover** of the hedge trimmer works perfectly and it is installed in such a way that the knife teeth are always covered.
16. **Turn off machine before repairing.** Ensure machine is turned off before beginning repair/adjustment work.



CAUTION!

Using other knife bars and other fixtures and extensions that are not expressly recommended can endanger people and property.

The machine can be used only for the designed purpose. Any machine usage at variance with its purpose is considered unprofessional usage. The user is liable for the damage caused to property and injuries resulting from this unprofessional handling, and not the manufacturer.

The manufacturer cannot be liable in case the machine was modified or used unprofessionally and damage arose as the result of these actions.

When handling the machine professionally there is always some risk that cannot be eliminated. The machine type and construction might present the following potential risks:

- Contact with an unprotected knife bar (danger of cutting yourself)
- Touching the trimmer in operation (danger of cutting yourself)
- Unexpected, sudden movements of the cut material and its parts (danger of cutting yourself)
- Spinning of faulty knife teeth and parts of knife bar (danger of cutting yourself)
- Hearing injuries if appropriate safety aids are not worn.
- Creation of harmful dust or gas when using the machine in closed premises (sickness).
- Do not use deformed or damaged cutting knives (knife bar destruction).
- Regulate the choke to close position in winter and at the first time to full open position when the engine is hot.



WARNING!

If you have any doubt over condition of petrol hedge trimmer, consult a specialist garden product service person before beginning use.

Starting the machine

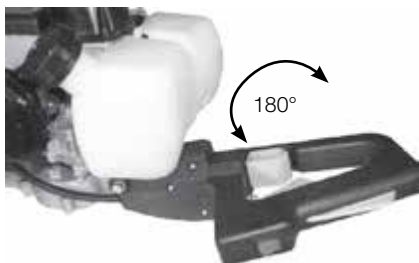
1. Pour mixed fuel into the relevant tank. Make sure you do not spill any fuel (danger of ignition). Fuel mix composition can be found in Chapter 12.
2. Move at least 3 metres from the place of refuelling. Do not start the machine in closed or badly ventilated premises.
3. Click switch (3) into the ON position. If starting a cold engine the choke switch (8) must be moved to the left.



Fig.a

4. Using the hand fuel pump (9) fuel can be pumped into the carburettor. This will lessen the number of start attempts after a longer break.





5. Now place the hedge trimmer on the ground, straddle the machine and place one hand on the side grip (7). Use your other hand to pull the starting cable (1) and wait for the engine to start. **ATTENTION! Do not pull too much; the cable length is 90 cm.** Watch the movable knife.
6. Once the engine is running, pump the throttle fully a few times. After about the fourth time you can move the choke to the right.
7. Using the tongue (5) you can move the handle. If you want to switch off the machine, put the switch (3) into the "OFF" position.
8. New machine should not work at full open position within the first 4 hours. The speed should be controlled at 4000-5000r/min, thus enabling the engine to have a good match and do reliable job.

Hedge trimmer functioning

The Morrison hedge trimmer is equipped with quick stop function which stops the knife immediately once the throttle is released to prevent a possible accident.

If you want to switch off the machine, you must move the switch (Fig. a; #3) into the "OFF" position.

- When cutting hedges comply with regulations valid in the relevant country and local regulations.
- If the branches are bigger than the maximal cutting power, they must be removed by other machinery.
- If heavy pruning is required, you should work in stages.

Work safely and with prudence

1. Hold the hedge trimmer safely in both hands!
2. Trim and cut only wood and wooden objects!
3. Work with consideration and do not threaten anyone when cutting. Work calmly with prudence!
4. Work when it is light and visible!
5. Constantly watch the cutting knife!
6. Never cut below shoulder height!
7. Work only with a sharpened and correctly installed cutting knife!
8. Do not stand on a ladder when working!
9. Work only on sound and stable ground!

Maintenance Instructions



WARNING!

The following instructions are valid for standard working conditions. In case of aggravated conditions such as heavy dust contents, wood with a high content of resin or longer working periods the interval must be shortened accordingly.

Before you start work check the following:

- throttle
- visually check the whole machine
- position of the knife bar or the cutting knife
- degree of sharpness
- wear and tear or the guiding bar damage

After you finish working check the whole machine and clean it.

Regularly check and maintain the following:

- air filter (clean if necessary)
- spark plugs (if replacement is needed)
- cutting knife sharpness (clean well and lubricate)

When repairing or maintaining the hedge trimmer, have it always switched off.

Fuel data



CAUTION!

Petrol is very flammable. Avoid smoking or bringing any flame or sparks near fuel.

1. Wipe up all spills before starting the engine.
2. Stop the engine and allow it cool before refuelling the unit.
3. Keep open flames away from the area where fuel is handled or stored.
4. Use only oil intended for 2 stroke air cooled engine use. Other oils can cause spark plug fouling, exhaust port blocking, or piston ring sticking.
5. Fuel mixtures which have been left unused for an extended period may clog the carburettor or cause hard starting. Store unused fuel in an air-tight container in a cool place.
6. Mix a regular grade petrol (leaded or unleaded) and a good quality two stroke engine oil for air cooled engines. Shake them together in a clean container to ensure thorough mixing before pouring into the fuel tank. Do not use plastic containers not specifically designed for use with petrol.



When using a mineral oil:

Mixing ratio 25:1

Gasoline litres:	1	2	3	4	5
2 cycle oil ml:	40	80	120	160	200

When using a semi-synthetic mineral oil:

Mixing ratio 40:1

Gasoline litres:	1	2	3	4	5
2 cycle oil ml:	25	50	75	100	125

Repairs/engine failures

Repairs that require special professional knowledge should be carried out by authorised service centres. Unprofessional interference can damage the machine or endanger your safety.

ENGINE FAILURES

Failure	Cause	Remedy
Engine not starting	<ol style="list-style-type: none"> 1. Empty tank 2. Flooded engine 3. Fouled spark plug (remains of carbon on the electrodes) electrodes too far away 4. Fouled carburettor or its jets 5. Damaged spark plug connection or damaged spark plug 6. Incentive spar missing 	<ol style="list-style-type: none"> 1. Fill up 2. Close the throttle, start for several times, in case of need take out the spark plug and dry it 3. Clean the spark plug, check its temperature, replace if needed. Adjust at 0.6-0.7 mm 4. Clean the carburettor with air 5. Replace 6. Check short circuit button cable, ignition module, in case of need replace. Adjust the gap (0,3-0,4 mm).
Engine runs too fast when idle	<ol style="list-style-type: none"> 1. Cold engine 	<ol style="list-style-type: none"> 1. Warm up slowly; alternatively close the choke a bit.
Engine does not reach its maximal capacity	<ol style="list-style-type: none"> 1. Fouled spark plug (remains of carbon on the electrodes) electrodes too far away 2. Fouled carburettor or its jets 3. Fouled air fi lter 4. Exhaust, exhaust channel 5. Sealing ring in crankcase not sealing properly 6. Worn cylinders, pistons and piston rings 7. Wrong fuel mix (too much oil) 8. Bad ignition 	<ol style="list-style-type: none"> 1. Clean the spark plug, check its temperature, replace if needed. Adjust at 0.6-.07 mm. 2. Clean the carburettor with air 3. Clean 4. Take out the exhaust and clean it, remove remains of carbon 5. Replace 6. Replace the cylinder, piston or piston rings, reface the cylinder and piston, assembly 7. Fill up according to the instructions 8. Adjust the ignition module louver (0.3-0.4 mm)
Engine would not stop	<ol style="list-style-type: none"> 1. Spark plug is light grey with signs of heating (heating drops) 2. Remains of carbon in the combustion area 	<ol style="list-style-type: none"> 1. Install a spark plug with a higher thermal value 2. Clean cylinder head, piston bottom and cylinder channels

Morrison, a division of Masport Limited
1-37 Mt Wellington Highway, Panmure
Auckland 1060
New Zealand
P: 0800 627 767

Masport Australia Pty Limited
1/40 Abbots Road, Dandenong
South Victoria 3175
Australia
P: 1300 366 225

MORRISON[®]