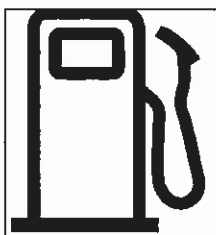


171503917/2



**EN** LAWN MOWER - OPERATOR'S MANUAL

**IMPORTANT:** Before starting the motor for the first time, carefully read the instructions as set out in the engine handbook.

**CAUTION!** Check oil level before starting.



**GGP ITALY SPA**

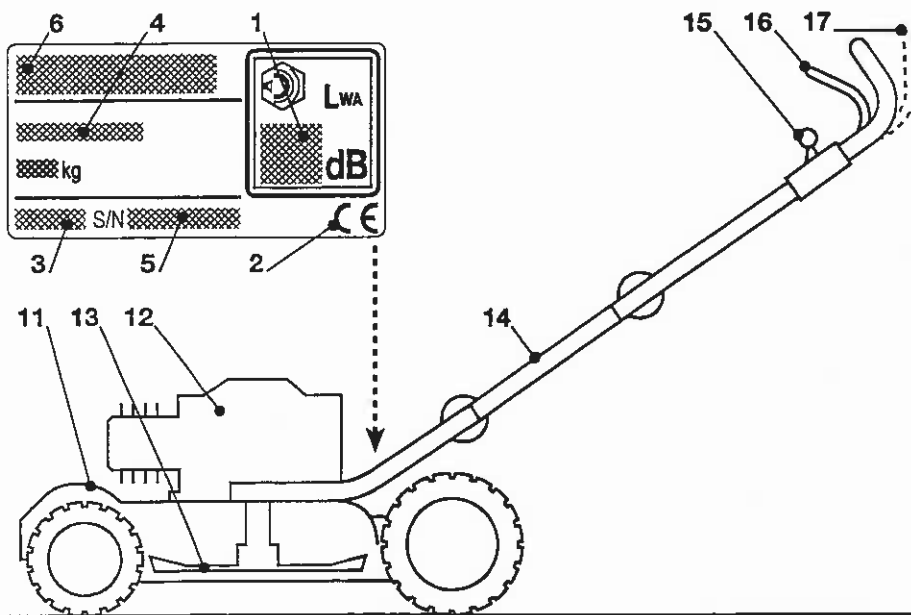
Via del Lavoro, 6

I-31033 Castelfranco Veneto (TV) ITALY



GLOBAL GARDEN PRODUCTS

## **Mountfield Mower Multiclip 501HP/PD**



**EN**

**IDENTIFICATION LABEL AND MACHINE COMPONENTS**

- 1. Acoustic power level according to EEC directive 2000/14/CE
- 2. Mark of conformity according to EEC directive 98/37
- 3. Year of manufacture
- 4. Lawnmower type
- 5. Serial number
- 6. Name and address of Manufacturer

As soon as you have purchased the machine, do not forget to write the identification numbers (3 - 5 - 6) in the spaces provided on the last page of the manual.

- 11. Chassis 12. Engine 13. Blade 14. Handle 15. Throttle control
- 16. Engine brake lever 17. Drive engagement lever

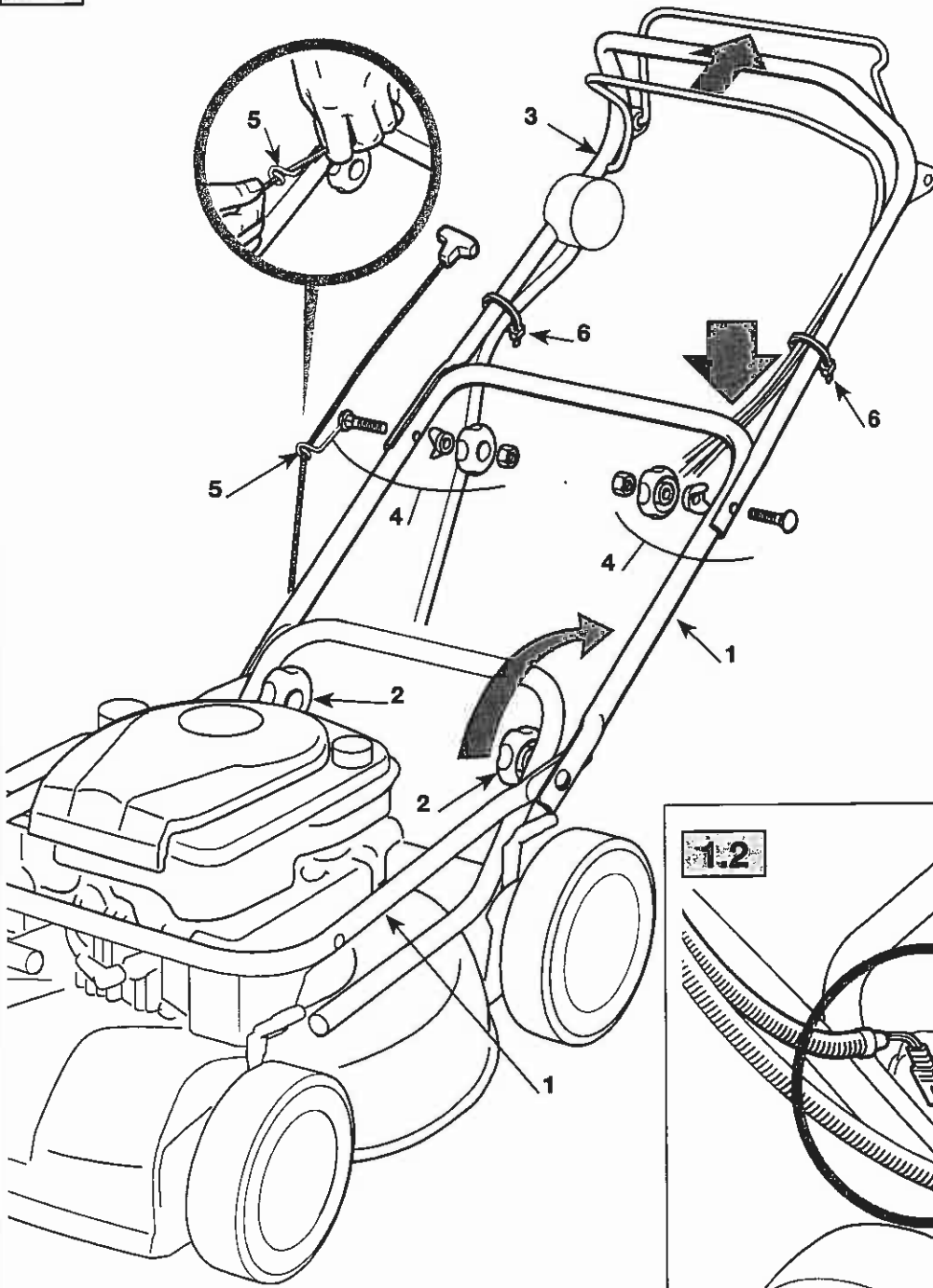
**DESCRIPTION OF THE SYMBOLS SHOWN ON THE CONTROLS (where present)**

- 21. Slow 22. Fast 23. Choke 24. Stop forward movement
- 25. Forward movement 26. Off 27. Start

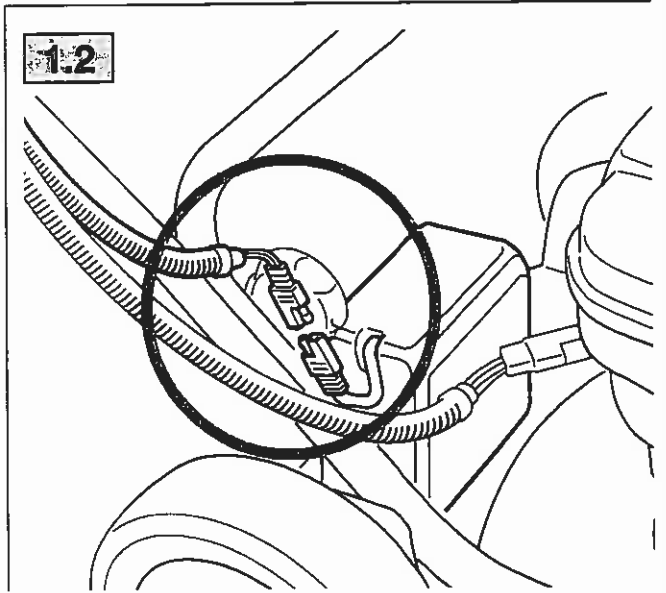
**SAFETY REQUIREMENTS** - Your lawnmower should be used with due care and attention. Symbols have therefore been placed on various parts of the machine to remind you of the main precautions to be taken. Their full meanings are explained later on. You are also asked to carefully read the safety regulations in the applicable chapter of this handbook.

- 41. **Important:** Read the instruction handbook before using the machine.
- 42. **Danger of thrown objects.** Keep other people at a safe distance whilst working.
- 43. **Warning:** Remove the spark plug lead and read instructions before carrying out any repair or maintenance.
- 44. **Danger of cutting.** Blades in movement. Do not put hands or feet near the blades.
- 45. **Warning!** Hot surfaces.

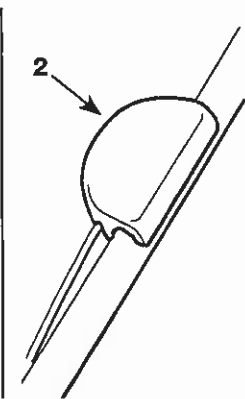
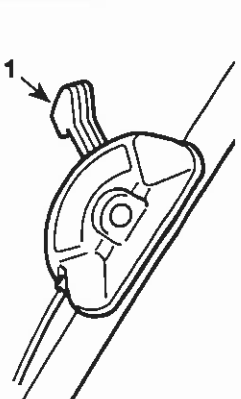
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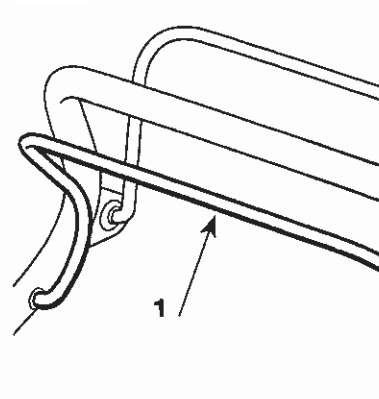
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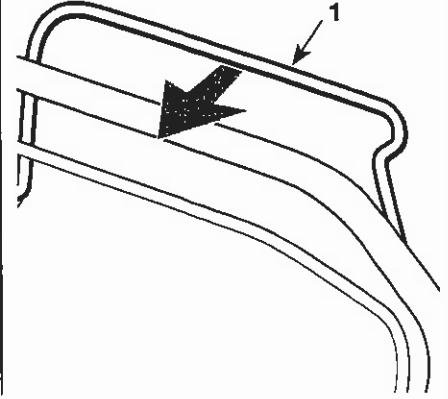
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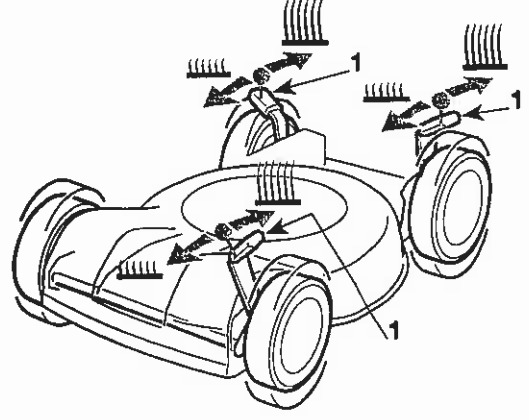
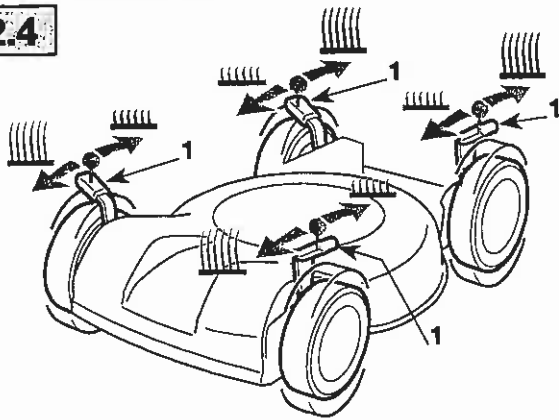
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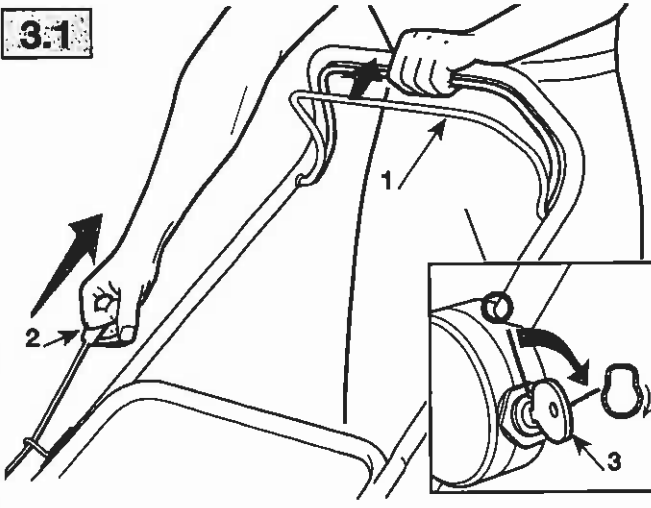
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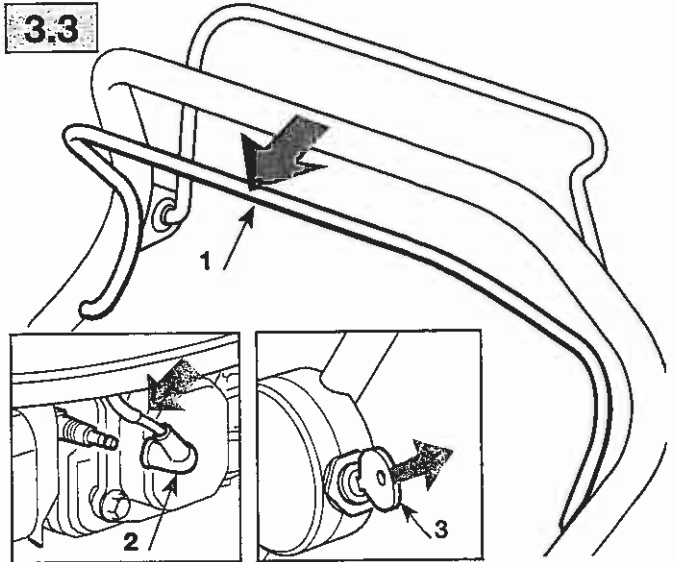
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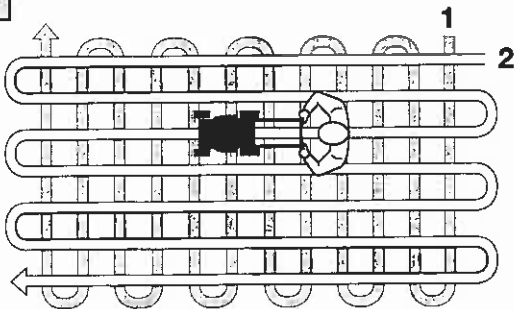
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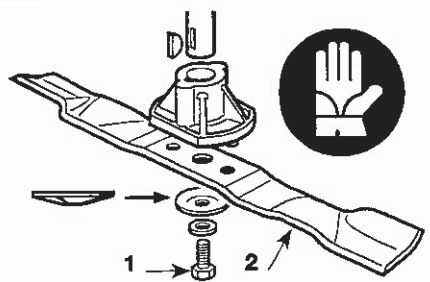
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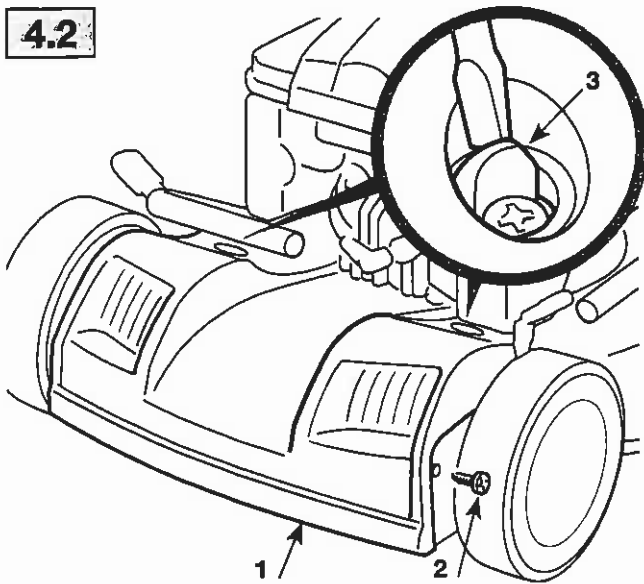
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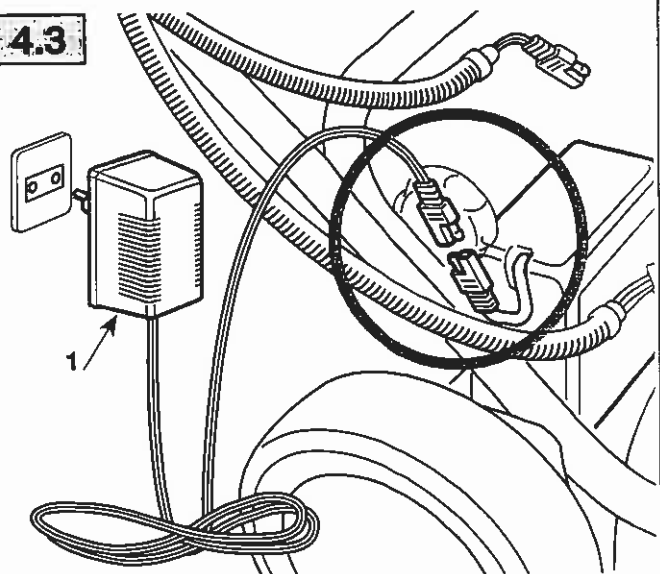
4.1



4.2



4.3



# **EN** SAFETY REGULATIONS

TO BE FOLLOWED CAREFULLY

## **A) TRAINING**

- 1) **Read the instructions carefully.** Get familiar with the controls and proper use of the equipment. Learn how to stop the engine quickly.
- 2) **Only use the lawnmower for the purpose for which it was designed, i.e. for cutting grass.** Any other use can be hazardous, causing damage to the machine.
- 3) Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations may restrict the age of the operator.
- 4) **Never use the lawnmower:**
  - When people, especially children, or pets are nearby.
  - If the operator has taken medicine or substances that can affect his ability to react and concentrate.
- 5) Remember that the operator or user is responsible for accidents or hazards occurring to other people or their property.

## **B) PREPARATION**

- 1) **While mowing, always wear sturdy footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.**
- 2) Thoroughly inspect the area where the equipment is to be used and remove all objects which may be thrown by the machine or damage the cutter assembly and the engine (stones, sticks, metal wire, bones, etc.)
- 3) **WARNING: DANGER! Engine fuel is highly flammable:**
  - Store fuel in containers specifically designed for this purpose.
  - **Refuel using a funnel and outdoors only. Do not smoke while refuelling or whenever handling the fuel.**
  - Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.
  - If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until the fuel has evaporated and the vapour dispersed.
  - Replace all fuel tanks and containers caps securely.
- 4) Substitute faulty silencers.
- 5) **Before use, always inspect the machine, especially the condition of the blades, and check that the screws and cutting assembly are not worn or damaged.** Replace worn or damaged blades and screws in sets to preserve balance.

## **C) OPERATION**

- 1) Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- 2) Mow only in daylight or good artificial light.
- 3) If possible, avoid operating the equipment in wet grass.
- 4) Always be sure of your footing on slopes.
- 5) Walk, never run and do not allow yourself to be pulled along by the lawnmower.
- 6) Mow across the face of slopes, never up and down.
- 7) Exercise extreme caution when changing direction on slopes.
- 8) **Do not mow on slopes of more than 20°.**
- 9) Exercise extreme caution when pulling the lawnmower towards you.
- 10) Stop the blade if the lawnmower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawnmower to and from the area to be mowed.
- 11) Never operate the lawnmower with defective guards.

- 12) Do not change the engine governor settings or overspeed the engine.
- 13) On power-driven models, disengage the drive clutch before starting the engine.
- 14) Start the engine carefully, following the instructions and keeping feet well away from the blade.
- 15) Do not tilt the lawnmower when starting the engine. Start the engine on a flat surface that is free of obstacles and tall grass.
- 16) **Do not put hands or feet near or under rotating parts.**
- 17) Never pick up or carry a lawnmower while the engine is running.
- 18) **Stop the engine and disconnect the spark plug wire:**
  - Before carrying out any work underneath the cutting deck;
  - Before checking, cleaning or working on lawnmower;
  - After striking a foreign object. Inspect the lawnmower for damage and make repairs before restarting and operating the lawnmower;
  - If the lawnmower starts to vibrate abnormally (find and remove the cause of the vibration immediately).
- 19) **Stop the engine:**
  - Whenever you leave the lawnmower unattended. Remove the key from models with electric starters.
  - Before refuelling.
  - Before adjusting the cutting height.
- 20) Reduce the throttle before turning off the engine and turn the fuel off when you have finished mowing, following the instructions in the engine handbook.
- 21) When mowing, always keep to a safe distance from the rotating blade. This distance is the length of the handle.

## **D) MAINTENANCE AND STORAGE**

- 1) Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition. Regular maintenance is essential for safety and performance.
- 2) Never store the equipment with fuel in the tank inside a building where vapour may reach a flame or a spark or a source of extreme heat.
- 3) Allow the engine to cool before storing in an enclosed space.
- 4) **To reduce the fire hazard, keep the engine, exhaust silencer, battery compartment and fuel storage area free of grass, leaves, or excessive grease.** Do not leave containers with grass cuttings in rooms.
- 5) If the fuel tank has to be drained, this should be done outdoors and when the engine is cool.
- 6) Wear strong work gloves when removing and reassembling the blade.
- 7) **Keep the blade balanced during sharpening.** All operations on the blade (dismantling, sharpening, balancing, remounting and/or replacing) require a certain familiarity and special tools. For safety reasons, these jobs are best carried out at a specialized centre.
- 8) **For reasons of safety, do not use the equipment with worn or damaged parts. Parts are to be replaced and not repaired. Use genuine spare parts (blades should always bear the symbol  $\Delta$ ). Parts that are not of the same quality can damage the equipment and be dangerous for your safety.**

## **E) TRANSPORTATION AND HANDLING**

- 1) Whenever the machine is to be handled, raised, transported or tilted you must:
  - wear strong working gloves;
  - grasp the machine at the points that offer a safe grip, taking account of the weight and its distribution.
  - use an appropriate number of people for the weight of the machine and the characteristics of the vehicle or the place where it has to be placed or collected.

## EN STANDARDS OF USE

For instructions regarding the engine and the battery (if supplied), read the relevant manuals.

### 1. FINISH ASSEMBLY

**NOTE** – The machine can be supplied with some of the components already fitted.

**1.1** Return the lower part of the pre-fitted handle (1) to its working position and lock into place using the lower knobs (2). Attach the upper part (3) using the screws (4) supplied, ensuring that the spiral (5) of the starter cable is in the correct position. Attach the control cables using the clips (6).

**1.2** On models with an electric starter, connect the battery cable to the lawnmower's general cable connection.

### 2. DESCRIPTION OF CONTROLS

**2.1** The throttle (where fitted) is controlled by the lever (1) and positioned as shown on the relative plate. Some models have a fixed speed, and therefore no need of a throttle (2).

**2.2** The blade brake is controlled by the lever (1), which should be held against the handle when starting and using the lawnmower. The engine stops when the lever is released.

**2.3** In power-driven models, draw the lever (1) towards the handle for forward movement. The lawnmower stops moving forward when the lever is released.

**2.4** The cutting height is adjusted using the levers (1). The four wheels must be at the same height.  
**MAKE THIS ADJUSTMENT ONLY WHEN THE BLADE HAS STOPPED MOVING.**

### 3. GRASS CUTTING

**3.1** To start the engine, follow the instructions in the engine booklet and then pull the blade brake lever (1) towards the handle and give a sharp pull on the starter cable knob (2). For models with an electric starter, turn the starter key (3).

**3.2** The lawn will look better if it is always cut to the same height and in alternate directions.

A machine with the MULCHING system cuts the grass, chops it finely and then blows it down into the lawn. The grass clippings need not be collected.

The following rules should be observed to give the best MULCHING effect:

1. Use a high engine speed (full throttle).
2. Do not mow when the grass is wet.
3. Do not cut the grass too short. Not more than 1/3rd of the length should be cut off.
4. Ensure that the area under the mower casing is always kept clean.
5. Always use a well-sharpened blade.

**3.3** When you have finishing mowing, release the brake lever (1) and disconnect the spark plug cap (2). Remove the starter key (3) (where fitted).  
**WAIT FOR THE BLADE TO STOP** before carrying out any type of work on the machine.

### 4. ROUTINE MAINTENANCE

**IMPORTANT** – Regular, careful maintenance is essential for keeping the safety level and original performance of the machine unchanged in time.  
**Store the lawnmower in a dry place.**

- 1) Wear strong working gloves during any cleaning, maintenance or adjustment operation on the machine.
- 2) Carefully clean the machines with water after each cut; remove the grass debris and mud accumulated inside the chassis to avoid their drying and thus making the next start-up difficult.
- 3) The paintwork on the inside of the chassis may peel off in time due to the abrasive action of the cut grass; in this case, intervene promptly by touching up the paintwork using a rustproof paint to prevent the formation of rust that would lead to corrosion of the metal.
- 4) Should it be necessary to access the lower part, only tilt the machine from the side shown in the engine handbook; following the relative instructions.
- 5) Do not drip petrol onto the plastic parts of the motor or the machine to prevent damaging them and remove all traces of spilt petrol immediately. The warranty does not cover damage to plastic parts caused by petrol.

**4.1** All operations on the blade should be carried out at a specialized centre.

**Note for specialized centres:** Reassemble the blade (2) as shown in the drawing and tighten the central screw (1) using a torque wrench set to 35-40 Nm.

**4.2** In models with drive remove the guard (1) once or twice a year by unscrewing the screws (2) and releasing the couplings (3). Then clean carefully using a brush or compressed air, removing the grass and dirt from the area around the transmission and belt.  
Always refit the guard (1).

**4.3** To recharge a flat battery, connect to the battery charger (1) following the instructions in the battery maintenance handbook. Do not connect the battery charger directly to the engine terminal. It is not possible to start the engine using the battery charger as a power source, as it may get damaged.



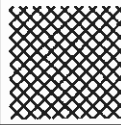
If the machine is to remain inactive for a long period, disconnect the battery leads after making sure that the battery is fully charged.

### 5. THE ENVIRONMENT

1. Always use a funnel and/or a petrol can with a level control to avoid spillage when refilling the fuel tank.
2. When changing the oil, ensure that all the used oil is collected. Avoid spillage. Take the used oil to a recycling unit.
3. Do not dispose of used oil filter in a rubbish bin. Take it to a recycling unit.
4. Do not dispose of used lead-acid batteries in a rubbish bin. Take them to a battery collection point for recycling (applies to battery-powered machines and machines with battery start).

Should you have any doubts or problems, do not hesitate to contact your nearest Service Centre or your Dealer.



		<b>LWA</b>
Model: .....		<b>dB</b>
Type: .....		
(Year) .....	S/N° .....	<b>CE</b>

Realizazione: EDIPROM - Bergamo

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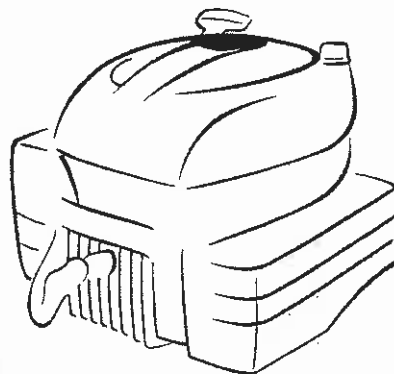
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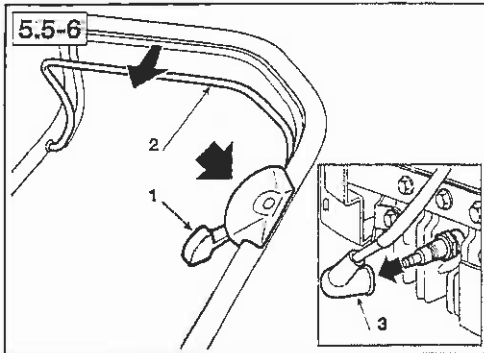
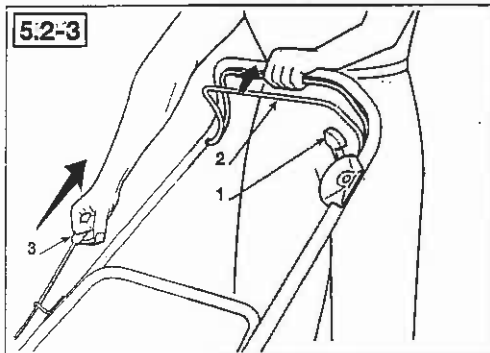
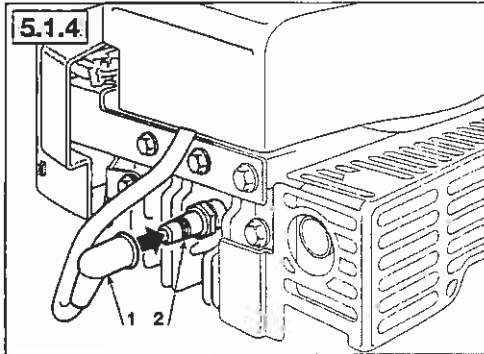
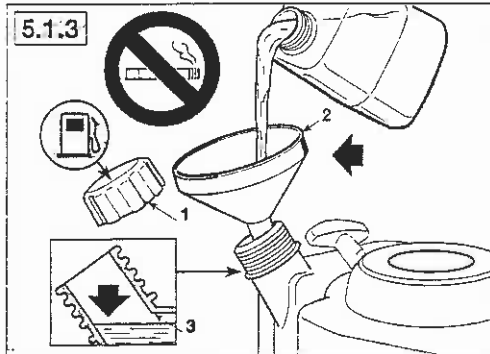
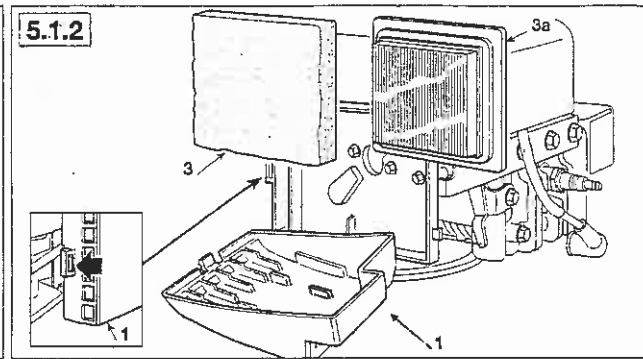
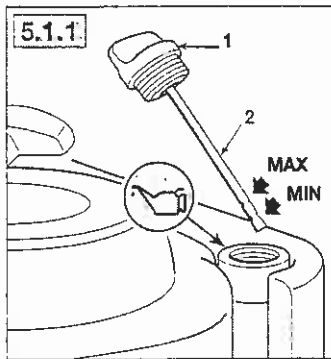
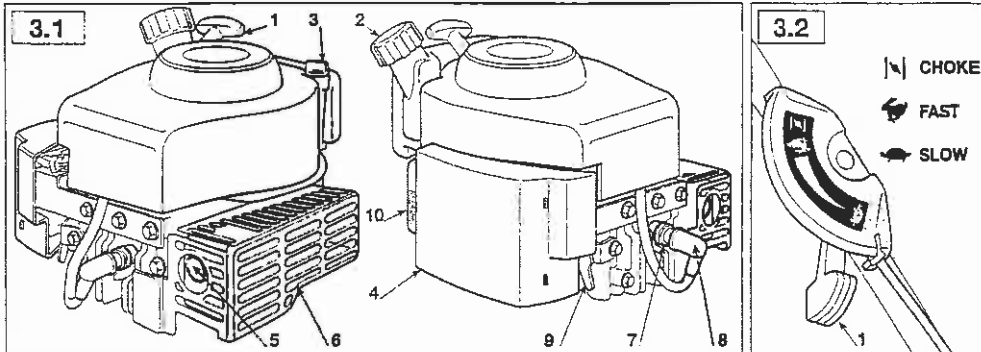
# Mountfield RV150 ~ 2007

## SV150 M150



- FR** MANUEL D'UTILISATION
- EN** OPERATOR'S MANUAL
- DE** GEBRAUCHSANWEISUNG
- IT** MANUALE DI ISTRUZIONI
- NL** GEBRUIKERSHANDLEIDING
- ES** MANUAL DE INSTRUCCIONES
- PT** MANUAL DE INSTRUÇÕES
- EL** ΕΓΧΕΙΡΙΔΙΟ ΟΔΗΓΙΩΝ
- TR** KULLANIM KILAVUZU
- MK** УПАТСТВО ЗА УПОТРЕБА
- NO** INSTRUKSJONSBOK
- SV** BRUKSANVISNING
- DA** BRUGSANVISNING
- FI** KÄYTTÖOHJEET
- CS** NÁVOD K POUŽITÍ
- PL** INSTRUKCJE OBSŁUGI
- HU** HASZNÁLATI UTASÍTÁS
- RU** РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ
- HR** PRIRUČNIK ZA UPORABO
- SL** PRIROČNIK ZA UPORABU





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## 1. GENERAL INFORMATION

### 1.1 READING AND UNDERSTANDING THE MANUAL

Some paragraphs in the manual containing information of particular importance for safety and operation are highlighted at various levels of emphasis, and signify the following:

#### NOTE

or

#### IMPORTANT

*These give details or further information on what has already been said, and aim to prevent damage either to the engine or other damages.*

**▲ WARNING!** *Non-observance will result in the risk of injury to oneself or others.*

**▲ DANGER!** *Non-observance will result in the risk of serious injury or death to oneself or others.*

#### NOTE

*Whenever a reference is made to a position on the machine "front", "back", "left" or "right" hand side, this is determined by facing the direction of forward travel.*

The number before the paragraph title refers to the text references and their related figures (shown inside front and back covers).

### 1.2 SAFETY SYMBOLS

Your engine should be used with due care and attention. Symbols have therefore been placed on the engine to remind you of the main precautions to be taken. Their full meaning is explained later on.

You are also asked to carefully read the safety regulations in the applicable chapter of this handbook.



**Warning!** - Read instructions before using.



**Warning!** - Keep away from hot surfaces.

## 2. GENERAL SAFETY STANDARDS

(to be strictly applied)

### A) TRAINING

- 1) Read carefully the instructions in this manual as well as those of the lawnmower powered by this engine. Learn how to stop the engine quickly.
- 2) Never allow people unfamiliar with these instructions to use the engine.
- 3) Never use the engine while people, especially children, or pets are nearby.
- 4) Remember that the operator or user is responsible for accidents or hazards occurring to other people or their property.

### B) PREPARATION

- 1) Do not wear loose-fitting clothing, dangling drawstrings, jewels or items that could become caught; tie up long hair and keep at safe distance (behind the lawnmower handle) while starting the lawnmower.
- 2) Turn engine OFF and let it cool before removing gas cap.
- 3) **WARNING: DANGER! Fuel is highly flammable:**
  - store the fuel in special containers;
  - refuel only outdoors by using a funnel; never smoke while refueling and/or handling fuel;
  - add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the

- engine is hot;
- if fuel is spilled, do not attempt to start the engine but move the lawnmower away from the area of spillage and avoid creating any source of ignition until the fuel has evaporated and fuel vapours have dissipated;
  - always put the tank and fuel container caps back on and tighten well.
- 4) Replace faulty silencers and the guard, if damaged.

### C) OPERATION

- 1) Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- 2) Do not use starting fluids or similar products.
- 3) Do not change the engine governor settings or overspeed the engine.
- 4) Do not tip the lawnmower at angle which causes fuel to spill from the fuel tank cap.
- 5) Do not touch the cylinder fins and/or the silencer guard until the engine has cooled down.
- 6) Turn the engine off and remove the spark plug wire before inspecting, cleaning or working either on the lawnmower or engine.
- 7) Do not crank the engine with spark plug removed.
- 8) Do not transport the lawnmower with fuel in tank.

### D) MAINTENANCE AND STORAGE

- 1) A routine maintenance is essential for safety and for keeping a high performance level.
- 2) Do not store the lawnmower with fuel in tank in an area where the fuel vapors could reach an open flame, a spark or a strong heat source
- 3) Allow the engine to cool before storing the lawnmower anywhere.
- 4) To reduce the fire hazard, keep the engine, the silencer and the fuel storage area free of grass, leaves, or excessive grease.
- 5) If the fuel tank has to be drained, this should be done outdoors once the engine has cooled down.
- 6) On safety ground, never use the engine with either worn or damaged parts. Parts are to be replaced and not repaired. Use genuine spare parts. Parts that are not of the same quality can damage the engine and impair your safety.

## 3. COMPONENTS AND CONTROLS

### 3.1 ENGINE COMPONENTS

1. Rope handle
2. Fuel tank filler cap
3. Oil filler cap with dipstick
4. Air cleaner cover
5. Silencer
6. Silencer guard
7. Spark plug
8. Spark plug cap
9. Speed control lever
10. Engine code






Note your engine serial number here

### 3.2 ACCELERATOR CONTROL

Usually the accelerator control is installed on the lawnmower handle and is connected to the engine by a cable.

The lever (1) has three positions, which correspond to:

-  CHOKE = to be used for cold starting.
-  FAST = top speed; to be used when mowing.
-  SLOW = slowest speed.

#### 4. WHAT YOU NEED TO KNOW

The engine performance, reliability and life are influenced by many factors, some external and some strictly associated with the quality of the products used and with the scheduled maintenance.

The following information allow a better understanding and use of your engine.

##### 4.1 ENVIRONMENTAL CONDITIONS

The operation of a four-stroke endothermic engine is affected by:

- a) **Temperature:**
- Working in low temperatures could lead to a difficult cold starting.
  - Working in very high temperatures could lead to a difficult hot starting due to the evaporation of the fuel either in the carburetor float chamber or in the pump.
  - In any case, the right kind of oil must be used, according to the operating temperatures.
- b) **Altitude:**
- The higher the altitude (above sea level), the lower the max power developed by an endothermic engine.
  - Therefore, at the highest altitudes the load on the lawnmower should be reduced avoiding, for example, to cut tall or wet grass.

##### 4.2 FUEL

A good quality fuel is the major issue for the engine reliability of operation.

- a) Use unleaded gasoline, with a minimum of 90 octane.
- b) Use clean, fresh fuel; purchase fuel in quantity that can be used within 30 days, to prevent gum from forming inside the container or the tank.
- c) Do not use fuel which contains Methanol.
- d) Do not add neither oil nor any kind of fuel additive.

##### 4.3 OIL

Use always high quality oils, choosing their viscosity grade according to the operating temperature.

- a) Use only detergent oil classified SF-SG.
- b) Choose the SAE viscosity grade of oil from this chart:
  - from 5 to 35 °C = SAE 30
  - from -15 to + 5 °C = 5W-30 or 10W-30 (Multi-viscosity)
  - from -25 to + 35 °C = Synthetic oils: 5W-30 or 10W-30 (Multi-viscosity)
- c) The use of multi-viscosity oils in hot temperatures will result in higher than normal oil consumption; therefore, check oil level more frequently.
- e) Do not mix oils of different brands and features.
- d) SAE 30 oil, if used below 5°C, could result in possible engine damage due to inadequate lubrication.
- f) Oil should be at "MAX" mark (see 5.1.1): do not overfill. Overfilling with oil may cause:
  - Smoking;
  - Spark plug or air filter fouling, which will cause hard starting.

##### 4.4 AIR FILTER

The air filter must always be in perfect working order, to prevent grass cuttings and dust from getting sucked into the engine, reducing the efficiency and life of the machine.

- a) Always keep the filtering element free of grass cuttings and in perfect working order (see 6.5).
- b) If necessary, replace the filtering element with an original spare part. Incompatible filtering elements can impair the efficiency and life of the engine.
- c) Never start the engine without mounting the filtering element properly.

##### 4.5 SPARK PLUG

Not all the spark plugs for endothermic engines are the same!

- a) Use only spark plugs of the recommended type, with the right heat range.
- b) Check the length of the thread, because – if too long – it will damage the engine beyond repair.
- c) Make sure that the electrodes are clean and their gap is correct (see 6.6).

## 5. STANDARDS OF USE

### 5.1 BEFORE EVERY USE

Before every use, perform the following checking procedures in order to assure a regular operation.

#### 5.1.1 Check oil level

See the specific chapter (8.1) for the oil to be used.

- a) Place engine level.
- b) Clean around oil fill.
- c) Remove the filler cap (1), clean the tip of the dipstick (2), insert and tighten down.
- d) Remove dipstick again and check the oil level that must be between the "MIN" and "MAX" marks.
- e) If oil is required, add oil of the same kind up to the "MAX" mark, being careful not to spill any outside the oil fill.
- f) Close the filler cap (1) and wipe off any spilled oil.

#### 5.1.2 Air filter check

The efficiency of the air filter is fundamental for the engine to work properly. Do not start the engine if the filtering element is missing or broken.

- a) Clean the area around the filter cover (1).
- b) Remove the cover (1) by releasing the rear tab (2) and check the condition of the filtering element (3 - 3a). It must be intact, clean and in perfect working order; if not, either replace it or carry out maintenance (see 6.5).
- c) Remount the cover (1).

#### 5.1.3 Adding fuel

See the specific chapter (8.1) for the fuel characteristics.

Add fuel only when the engine is cold.

- a) Place the lawnmower level.
- b) Clean around the filler cap (1).
- c) Remove the filler cap (1).

- d) Using a clean funnel (2), fill tank to approximately 5 mm below the inner edge of the filler neck (3), being careful not to spill fuel.
- e) Tighten the filler cap (1) back and clean any spilled fuel.

#### 5.1.4 Spark plug cap

Connect the cap (1) of cable to the spark plug (2), making sure that there is no grass or dirt either inside the cap or on the spark plug terminal.

### 5.2 STARTING THE ENGINE (cold starting)

Always start the engine with the lawnmower traction device (if equipped) disengaged:

- a) Move throttle control (1) to "CHOKE" position.
- b) Close safety brake control handle (2), as shown in the lawnmower instructions.
- c) Grasp rope handle (3) and pull slowly until resistance is felt. Then pull cord rapidly.
- d) When engine starts, release the rope.
- e) After a few seconds, slowly move throttle (1) from "CHOKE" to "FAST" or "SLOW" position.

#### NOTE

*If the engine does not start, repeat from section b).*

#### NOTE

*If the engine starts but does not keep running, repeat the whole starting procedure with throttle control in "FAST" position.*

### 5.3 STARTING THE ENGINE (hot starting)

- e) Follow the whole cold-starting procedure with throttle control (1) in "FAST" position.

### 5.4 USE OF THE ENGINE IN OPERATION

When mowing, use the engine at its max rpm by moving the throttle control to "FAST" position.

#### ⚠ WARNING!

*Keep your hands away from the silencer and surrounding areas that can become extremely hot. With the engine running, do not get loose-fitting*

clothing (ties, scarves, etc.) or hair closer to the top part of the engine.

**IMPORTANT** Do not operate on over 15° inclines to prevent malfunctioning of the engine.

**5.5 STOPPING DURING OPERATION**

- a) Move throttle control to "SLOW".
- b) Release the safety brake control handle (2) to stop the engine.

**5.6 STOPPING AT THE END OF OPERATION**

- a) Move throttle control (1) to "SLOW".
- b) Release the safety brake control handle (2) to stop the engine.
- c) Once the engine has cooled, disconnect the spark plug cap (3).
- d) Remove any grass build-up from the engine, in particular from the silencer, to reduce fire hazard.

**5.7 CLEANING AND STORAGE**

- a) Do not spray with water or use hydraulic lances to clean the exterior of the engine.
- b) Use an airgun (max 6 bar) making sure that no grass debris and dust fall inside the engine.
- c) Store the lawnmower (and the engine) in a dry place, sheltered from severe weather conditions and sufficiently ventilated.

**5.8 LONG STORAGE (over 30 days)**

In case the engine has to be stored for a long time (for example at the end of the season), a few precautions are needed to help the future start-up.

- a) Drain fuel from tank to prevent build-ups inside the tank.
- b) Remove the spark plug and pour inside the spark plug hole about 3 cl of clean engine oil. Close the hole with a cloth, then pull, slowly and carefully, the starting rope so that, with a few engine revolutions, the oil will be distributed on the cylinder inner walls. Reinstall the spark plug without connecting the cable cap.

**6. MAINTENANCE**

**6.1 SAFETY RECOMMENDATIONS**

**WARNING!** Remove the spark plug cap and read instructions before carrying out any cleaning, repair or maintenance operation. Wear proper clothing and working gloves whenever your hands are at risk. Do not perform maintenance or repair operations without the necessary tools and technical knowledge.

**IMPORTANT** Never get rid of used oil, fuel or other pollutants in unauthorised places.

**IMPORTANT** If necessary, you can lift the front side of your lawnmower or you can tip it on its left side only, making sure not to spill any fuel or oil.

**6.2 MAINTENANCE SCHEDULE**

Follow the hourly or calendar – whichever occur first – maintenance schedule shown in the following table.

Operation	After First 5 hours	Every 5 hours or daily	Every 25 hours or every season	Every 50 hours or every season	Every 100 hours
Check oil level (see 5.1.1)	-	✓	-	-	-
Change oil <sup>1)</sup> (see 6.3)	✓	-	-	✓	-
Clean silencer and engine (see 6.4)	-	-	✓	-	-
Check air cleaner <sup>a)</sup> (see 6.5)	-	-	✓	-	-
Oil air cleaner <sup>a)</sup> (see 6.5)	-	-	✓	-	-
Check spark plug (see 6.6)	-	-	✓	-	-
Replace spark plug (see 6.6)	-	-	-	✓	-

<sup>1)</sup> Change oil every 25 hours if the engine is operating under heavy load or in hot weather.

<sup>a)</sup> Clean air cleaner more frequently if the machine is operating in dusty areas.

**6.3 CHANGE OIL**

See the specific chapter (8.1) for the oil to be used.

**⚠ WARNING!** *Drain oil while the engine is warm, being careful not to touch the hot engine nor the drained oil.*

- a) Place engine level.
- b) Clean around oil fill (1).
- c) Remove the filler cap (1).
- d) Have a container ready (2) to collect the oil.
- e) Tip the lawnmower on its left side so that the oil will drain from the oil fill (3).
- f) Place the lawnmower level and top up with new oil.
- g) Check the oil level on the dipstick (4). Oil should be at "MAX" mark.
- h) Close the filler cap and wipe off any spilled oil.

**NOTE** *The oil capacity is about 0.6 liter.*

**6.4 CLEAN SILENCER AND ENGINE**

Silencer must be cleaned when the engine is cold.

- a) Remove from the silencer (1) and its guard (2) any grass debris or dirt that could cause fire, using a brush or compressed air.
- b) Clean the cylinder and cylinder head fins (3) to ease engine cooling and prevent overheating.
- c) Clean the plastic components with a sponge (4) soaked in water and detergent.

**6.5 AIR FILTER MAINTENANCE**

- a) Clean the area around the filter cover (1).
- b) Remove the cover (1) by releasing the rear tab (2) and remove the filtering element (3 - 3a).
- c) Carry out maintenance on the filtering element as described below for each type.
- d) Clean inside the filter housing (4) to get rid of any dust and grass cuttings, taking care not

- e) Put the filtering element (3 - 3a) back in place and close the cover (1).

**• Sponge filtering element (3)**

Keep the filtering element clean and soaked in oil. Replace it if it is disintegrating, cut or broken.

**IMPORTANT** *Do not use compressed air to clean the filtering element.*

- Clean the sponge filtering element with water and detergent and dry it with a clean cloth.
- Soak the filtering element in 2 tablespoonfuls of clean engine oil and wring it well to distribute the oil evenly.
- Remove any excess oil with a clean cloth.

If you need to replace the filtering element, oil the new filter as described above.

**• Cartridge filtering element (3a)**

- Blow compressed air from the inside to remove dust and grass cuttings.

**IMPORTANT** *Do not use water, petrol, detergents or any other products to clean the filtering element.*

**6.6 SPARK PLUG SERVICE**

- a) Remove the spark plug (1) using a spark plug socket wrench (2).
- b) Clean the electrodes (3) with a metal brush and remove any carbonaceous build-up.
- c) Using a thickness gauge (4), check for the right gap (0.6 - 0.8 mm) between the electrodes.
- d) Install the spark plug (1) and tighten with a socket wrench (2).

Replace the spark plug if the electrodes are burnt or if the porcelain is broken or damaged.

**⚠ WARNING!** *Fire hazard! Do not check the ignition system with spark plug removed.*

**IMPORTANT** *Use only spark plugs of the recommended type (see 8.1).*



**6.7 ADJUSTMENT OF THE ACCELERATOR CABLE**

If the engine does not reach its maximum rpm with the throttle control in "FAST" position, this is likely due to an out-of-phase connection between the accelerator lever and the governor lever.

To restore the correct phase:

- a) Stop the engine, remove the spark plug cap

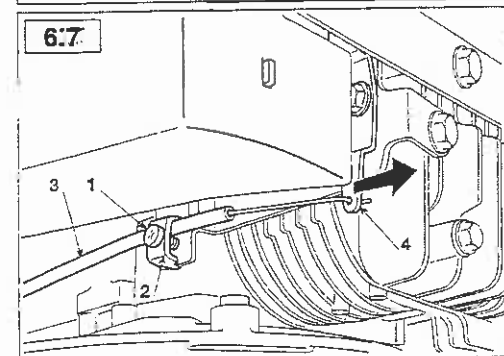
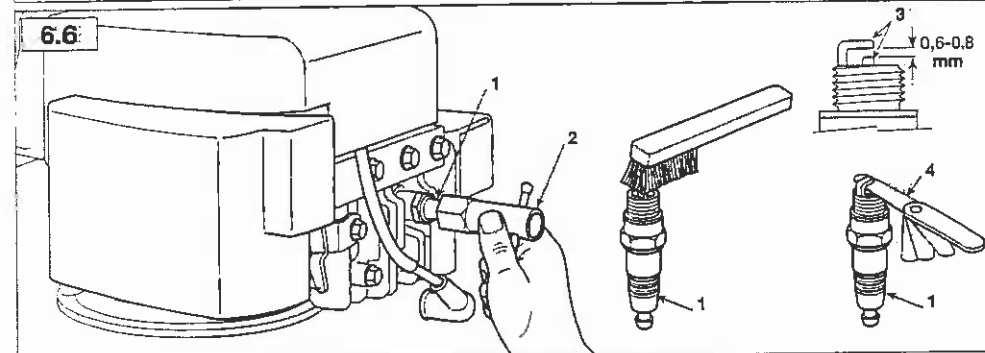
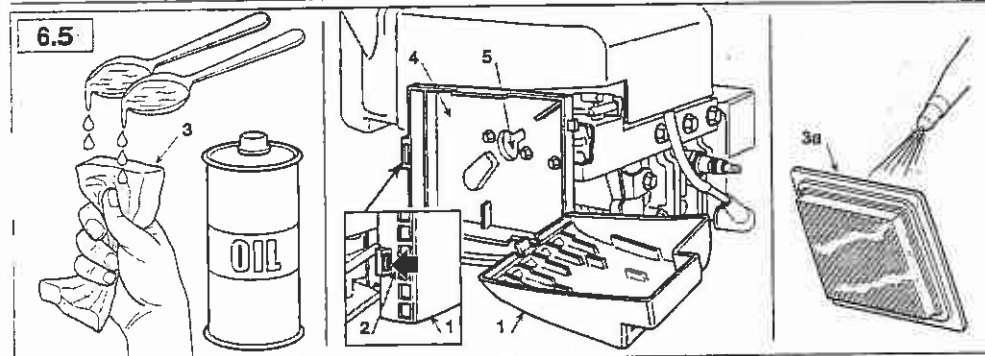
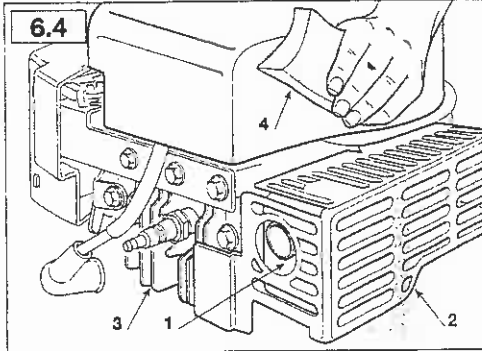
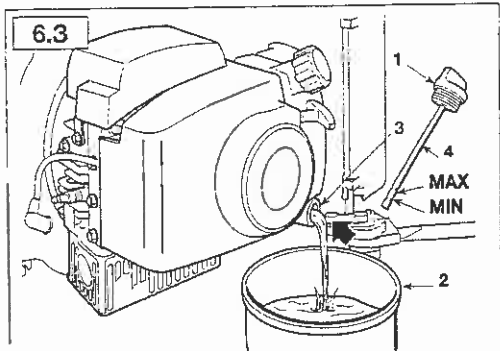
- and wait until the engine has cooled.
- b) Loosen the screw (1) of the clamp (2) so that the cable casing (3) is free to move.
- c) Move the throttle control to "SLOW".
- d) Move governor control lever (4) forward as far as possible and, by keeping it in this position, lock the casing (3) full tightening the screw (1) of the clamp (2).

**7. TROUBLESHOOTING**

PROBLEM	LIKELY CAUSE	SOLUTION
a) Hard starting	<ul style="list-style-type: none"> <li>- No fuel</li> <li>- Stale fuel or build-ups in tank</li> <li>- Spark plug disconnected</li> <li>- Dirty electrodes or incorrect gap</li> <li>- Air filter clogged</li> <li>- Incorrect oil for the season</li> <li>- Fuel evaporation in the carburetor (vapor lock) due to high temperatures</li> <li>- Fault in carburation</li> <li>- Hard starting</li> </ul>	<ul style="list-style-type: none"> <li>- Check and top up (see 5.1.3)</li> <li>- Empty fuel tank and refill with fresh fuel</li> <li>- Check that the spark plug cap fits well over the plug terminals (see 5.1.4)</li> <li>- Check (see 6.6)</li> <li>- Check and clean (see 6.5)</li> <li>- Replace with proper oil (see 6.3)</li> <li>- Wait for a few minutes then start again (see 5.3)</li> <li>- Contact a Licensed Service Centre</li> <li>- Contact a Licensed Service Centre</li> </ul>
b) Inconsistent working	<ul style="list-style-type: none"> <li>- Stale fuel or build-ups in tank</li> <li>- Dirty electrodes or incorrect gap</li> <li>- Air filter clogged</li> <li>- Fault in carburation</li> <li>- Hard starting</li> </ul>	<ul style="list-style-type: none"> <li>- Empty fuel tank and refill with fresh fuel (see 6.8)</li> <li>- Check (see 6.6)</li> <li>- Check and clean (see 6.5)</li> <li>- Contact a Licensed Service Centre</li> <li>- Contact a Licensed Service Centre</li> </ul>
c) Loss of power while mowing	<ul style="list-style-type: none"> <li>- Air filter clogged</li> <li>- Fault in carburation</li> <li>- Governor out of phase with respect to the accelerator</li> </ul>	<ul style="list-style-type: none"> <li>- Check and clean (see 6.5)</li> <li>- Contact a Licensed Service Centre</li> <li>- Adjust the cable (see 6.7)</li> </ul>

**8. TECHNICAL SPECIFICATIONS****8.1 REFILLING AND OPERATION MATERIALS**

Fuel .....	Unleaded gasoline, minimum 90 octane
Tank capacity .....	0.8 liter
Engine oil: from 5 to 35 °C .....	SAE 30
from -15 to +5 °C .....	5W-30 or 10W-30
from -25 to +35 °C .....	Synthetic 5W-30 or 10W-30
Oil capacity .....	0.6 liter
Spark plug .....	RN9YC (Champion) or equivalent
Spark plug gap .....	0.6 - 0.8 mm



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