

Rotary Mowers



Owner's Manual

**THIS MANUAL COVERS A RANGE OF DIFFERENT POWERUP MOWERS.
SOME FEATURES MENTIONED MAY NOT APPLY TO YOUR MOWER.**

IMPORTANT: Keep these instructions and the engine booklet in a safe place for future reference.
They contain important information about your mower.

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CAUTION

A CAUTION INDICATES SPECIAL PRECAUTIONS THAT MUST BE TAKEN TO AVOID DAMAGE TO THE MOWER.



WARNING

A WARNING INDICATES SPECIAL PROCEDURES THAT MUST BE FOLLOWED TO AVOID INJURY TO THE OPERATOR OR ANY BYSTANDER.

SAFETY INSTRUCTIONS.



PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING TO USE YOUR MOWER. TRAINING

1. Read the operating and maintenance manuals carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the mower and disengage the controls quickly in an emergency.
2. Never allow children or people unfamiliar with these instructions to operate the mower.
3. Keep the area of operation clear of all persons, particularly small children and pets.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wires, bones and other foreign objects before mowing, they could be thrown by the blade.
2. Do not operate the equipment when bare-foot or wearing open sandals. Always wear substantial footwear and long trousers. It is advisable to wear suitable eye protection.
3. Check the fuel before starting the engine. Do not smoke while fuelling the engine. Do not fill the fuel tank indoors, never remove the fuel cap off the fuel tank or add fuel when the engine is running or until it has been allowed

to cool for several minutes after running. Clean off any spilled fuel before starting the engine.

4. Never attempt to make a wheel height adjustment while the engine is running.
5. Mow only in daylight or good artificial light, and always keep children away from the mowing area.
6. Never operate the equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk; never run. Never walk backwards while cutting grass.

OPERATION

1. Disengage all blade and drive controls before starting the engine.
2. Do not tilt the mower when starting the engine.
3. Start the engine carefully with feet well away from the blades.
4. Do not put hands or feet near or under rotating parts. Always keep clear of the blade and discharge opening.
5. Do not change the engine governor settings or over-speed the engine. Excessive speed is dangerous and shortens mower life.
- 6 Stop the engine when crossing gravel drives, walks or roads.
7. Don't mow over heavy or solid objects as striking them with the blade can cause serious damage to the engine and will void your warranty.
8. After striking a foreign object, stop the engine, remove the wire from the spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.
9. If the mower should start to vibrate abnormally, stop the engine, disconnect the spark plug wire, and check immediately for the cause. Vibration is generally a warning of trouble.
10. Stop the engine whenever you leave the mower, even for a moment, before cleaning the mower housing, and when making any repairs or inspections.
11. When cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped and that the engine has had time to cool. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
12. Do not run the engine indoors. Lethal exhaust gases can be produced.
13. Shut the engine off and wait until the blade comes to a complete stop before removing the grasscatcher or un-clogging the chute.
14. Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
15. Never operate the mower without proper guards, deflectors provided by the manufacturer, or other safety devices in place.
16. Never pick up or carry a mower when it is operating.
17. Turn the fuel off at the conclusion of mowing and reduce the throttle setting during run-out.

MAINTENANCE



1. Before using, check the blade(s) and blade bolt(s) for wear and damage. Replace worn or damaged blades and bolts in sets to preserve the balance. **DAMAGED BLADES AND WORN BOLTS ARE MAJOR HAZARDS.**
2. Keep all nuts, bolts and screws tight to be sure the mower is in safe working condition.
3. Never store the mower with fuel in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. Store fuel in an approved container safely out of the reach of children in a cool, well ventilated place.
5. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
6. Check the catcher bag frequently for deterioration and wear, and replace worn bags. Check that replacement bags comply with the original manufacturer's recommendations or specifications.

STORING THE MOWER

The handle can be folded to minimise space requirements.

FOLDING HANDLE. Unlock the handle lever(s) in the middle of the handle and fold the top section over the engine.



CAUTION

Check that the control cables are not being strained while folding and unfolding the handle. Permanent kinks will make the controls difficult to operate.

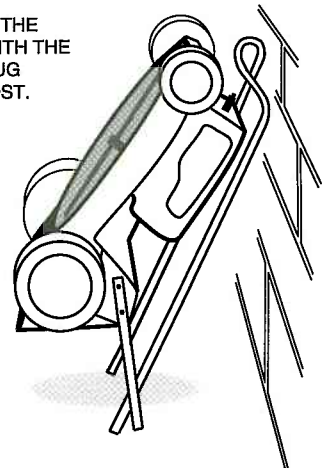
TIPPING THE MOWER SAFELY FOR STORAGE.



CAUTION

Tilting the mower—Drain fuel, then tilt the mower with the spark plug uppermost.

ONLY TILT THE MOWER WITH THE SPARK PLUG UPPER MOST.



ASSEMBLING THE MOWER

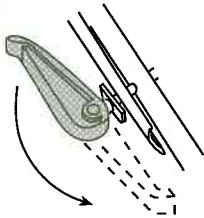
Please refer to the following sections when preparing the mower for its first use.

- Fitting the handle, below.
- Preparing the Engine, this page.
- Assembling the catcher, page 6.

NOTE - The left and right sides of the mower are referred to as viewed from the operating position behind the handle.

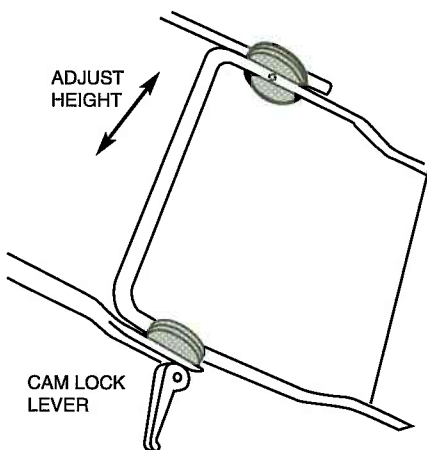
FITTING THE HANDLE.

Most models are fully assembled when packed, so all that is needed is to remove them from the carton, swing the handle to the operating position and lock the handle lever(s).



THE 'ERGO' HANDLE

The 'Ergo' handle can be adjusted to your preferred height. Simply release both cam lock levers, move the upper handle to the height required and re-clamp the cam locks.



Where the mower has screw type locks, wind the knobs firmly clockwise to lock the handle.

PREPARING THE ENGINE



PLEASE READ AND UNDERSTAND THE ENGINE MANUFACTURERS ENGINE OWNERS MANUAL PRIOR TO OPERATING THE LAWNMOWER.



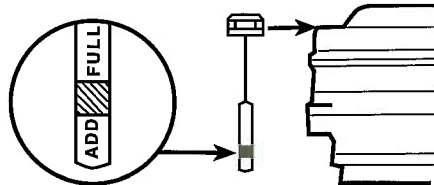
CAUTION

DO NOT START your four stroke engine before making sure that it has been filled with the right amount of the correct grade of oil. See engine instruction book for details.

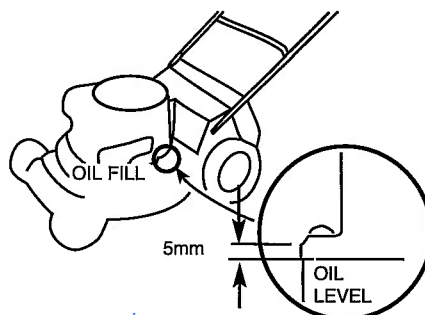
TWO STROKE ENGINES require no special attention to lubrication provided that the fuel/oil mixture is correct at all times.

OIL.

Four stroke (cycle) engines are shipped without oil. Place the mower on a level position, unscrew the 'OIL FILL' cap and slowly pour oil into the sump. Fill to the full mark on the dipstick. The capacity is approximately 600 ml. Use SAE 30 engine oil. When checking the oil level, and before running the engine, screw the dipstick firmly in place.



Checking the oil level if the engine is not fitted with a dip stick.



CHANGING THE ENGINE OIL.

FOUR STROKE ENGINES should be checked for oil level every 8 hours running (or daily), and the oil should be drained and replaced after every 50 hours of use.

FUEL



WARNING

PETROL VAPOUR IS HIGHLY FLAMMABLE AND EXPLOSIVE. HANDLE WITH EXTREME CARE. STORE IN AN APPROVED CONTAINER. DO NOT FILL TANK WHEN ENGINE IS RUNNING OR IS STILL HOT. DO NOT ALLOW OPEN FLAME, MATCHES OR SMOKING NEARBY. FILL TANK OUTDOORS IN A WELL VENTILATED AREA. WIPE AWAY ANY SPILLS AND MOVE THE MOWER AWAY FROM ANY PETROL FUMES BEFORE STARTING ENGINE.



CAUTION

If a blue plug is fitted beneath the petrol filler cap it must be discarded. It is for transportation purposes only.

- For two stroke engines fuel ratio, refer to engine instruction book.

When filling the fuel tank, always leave an air space of about 5mm to allow for expansion of the fuel.



CAUTION

USE ONLY CLEAN FRESH PETROL AT ALL TIMES, preferably un-leaded, with an octane rating of at least 91. Four stroke (cycle) engines use straight fuel. Two stroke engines MUST have a fuel and oil mixture. See engine instruction book for details. Always mix two-stroke fuel thoroughly by shaking the oil and petrol together in a clean container before pouring into the engine tank. USE ONLY TWO STROKE (CYCLE) OILS when mixing two stroke fuel. We do not recommend the use of multi-viscosity oils or pre-mixed fuels.

ENGINE.

Regular attention to a few simple items will ensure long and trouble-free service from your mower. Carry out the regular maintenance described in the engine manual, and check the engine mounting bolts regularly to be sure they are tight.

NOTE: THE ENGINE IS WARRANTED BY THE ENGINE MANUFACTURER AND NOT POWERUP. YOUR SPECIALIST POWERUP SERVICE DEALER CAN ASSIST WITH ENGINE RELATED WARRANTY MATTERS.



WARNING

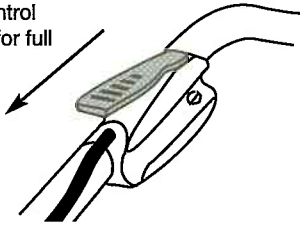
Before making any adjustments to your mower make sure that the engine is turned off and that the blade has STOPPED ROTATING. Always disconnect the spark plug wire and make sure it cannot accidentally contact the spark plug before touching anything under the mower housing.

RUNNING THE ENGINE

ENGINE CONTROL.

This is mounted at the top of the handle or directly on the engine. It operates the choke, if fitted (for cold starting) and allows you to set the governed speed of the engine.

Push control forward for full throttle.



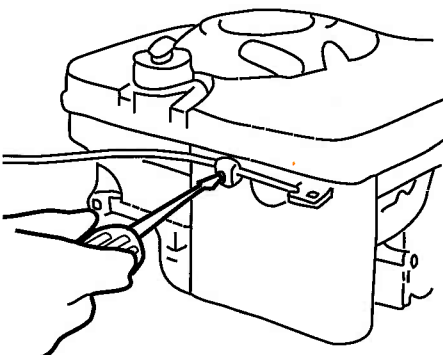
You will not need to change the control setting constantly while mowing because the governor holds the selected speed, even under varying cutting loads. The positions for CHOKE (cold start), FAST, SLOW and STOP are usually marked. If STOP is not marked, move the lever beyond SLOW to stop the engine.

Some controls have symbols instead of words. On these,

- ☒ means CHOKE,
- ⚡ means FAST,
- 🐢 means SLOW,
- ⊛ means STOP.

If your engine control does not have the word CHOKE or the choke symbol ☒ you have a Pulsa Prime engine. (See RUNNING THE ENGINE, MANUAL START MODELS - on this page.

ENGINE CONTROL. This MUST be correctly adjusted for easy starting and safe stopping. If you have cold starting problems, adjust the outer sleeve of the control cable under the clamp on the engine at the lower end of the cable. See engine instruction booklet for details. Make any adjustments only with the handle in its normal operating position. After adjusting, check that the choke butterfly fully closes at one end of the control lever travel, and that the ignition stop switch is activated at the other.



STARTING.

Ensure that the engine has been prepared correctly (see above) and that the fuel tap (if fitted) is turned ON. We recommend that you check the oil level before every mowing session.



WARNING

NEVER RUN THE ENGINE INDOORS OR IN POORLY VENTILATED AREAS. ENGINE EXHAUST CONTAINS CARBON MONOXIDE, AN ODOURLESS AND DEADLY GAS. KEEP HANDS, FEET, HAIR AND LOOSE CLOTHING AWAY FROM MOVING PARTS.

MANUAL START MODELS. If the engine has not been running recently, set the engine control to the CHOKE position. For Pulsa Prime engines (which have no CHOKE marking or symbol on the control), push the primer bulb on the side of the engine by the carburettor, refer engine owner's manual. (Do this also if you have just refilled the tank after running out of fuel). Stand to the right of the mower and place your foot on the mower body, grasp the starter grip, pull slowly until a resistance is felt and then pull forcefully to prevent kick-back. Repeat until the engine starts. Do not pull the cord with a jerk or release it until fully rewound.—When the engine starts and has warmed up for a short time, move the control to the desired speed. Should the engine not start due to 'flooding', move the control to SLOW and pull the starter six times to clear the flooding.



ELECTRIC START MODELS.

Follow the procedure for manual start models, remembering not to use the choke when the engine is warm. Instead of pulling the starter grip, simply stand at the handle and turn the key fully clockwise. When the engine starts, release the key. It will spring back.

Avoid operating the starter for long periods to prevent excessive battery drain. For best starter life, crank no more than a few seconds at a time and no more than 15 seconds in any minute. If the battery is discharged and the starter will not operate, the mower may be started manually as described previously.

You need to mow continuously for approximately 20 minutes to recharge the battery.



WARNING

OPERATING THE STARTER ROTATES THE CUTTING BLADES - KEEP HANDS AND FEET WELL CLEAR.

When the engine starts and has warmed up for a short time, move the control to the desired speed. Should the engine not start

due to 'flooding', move the control to SLOW and pull the starter six times to clear the flooding.

BATTERIES



WARNING

Batteries contain corrosive fluids and toxic materials and should be handled with care. Keep away from children. Do not puncture, disassemble, mutilate or incinerate. Use in a well ventilated area as explosive gases can be vented during charge or discharge. Do not make direct contact between the terminals as this will create excessive heat and possibly a fire.

The engine on an electric start mower charges the battery as you mow, so no special attention is needed. If the battery should require extra charging, use only a charger which has a well regulated constant voltage (15 volts max.) with a maximum current of 3 Amps. Full charging will take 3 hours with a 3 Amp charger, or overnight with the usual 'trickle' charger. If your mower is not being used regularly, we recommend an overnight trickle charge about once a month.

HINTS FOR EASY STARTING.

1. Stand the mower on a paved drive or path where the blade is clear of the grass. If you must start on the lawn, move to an already cut area and/or raise the cutting height. Do not start the mower on a gravel surface.
2. Start a warm engine with the control in the SLOW position.
3. Keep the mower clean underneath.

HARD STARTING CHECK LIST

Look for these faults:-

- FUEL. 1. Insufficient fuel in tank.
- 2. Fuel tap shut off.
- 3. Stale fuel.
- 4. Water or dirt in fuel.
- 5. Blocked air vent in fuel tank cap.
- IGNITION. 1. Loose spark plug wire.
- 2. Dirty spark plug electrodes.
- 3. Incorrect spark plug gap.
- 4. Incorrect spark plug type.
- OTHER. 1. Choked air filter (Dirt or oil).
- 2. Engine control cable mis-adjusted.
- 3. Cutting blade obstructed.

STOPPING.

Move the engine control to STOP.

ENGINE MAINTENANCE

IGNITION.

Your engine has a breaker-less solid state ignition system which requires no maintenance other than occasional attention to the spark plug. We recommend cleaning and re-gapping every 50 hours, with replacement every 100 hours. (See engine instruction booklet).



CAUTION

DO NOT SANDBLAST PLUGS as abrasive grains can enter the engine and cause serious damage. USE ONLY THE EXACT TYPE OF REPLACEMENT PLUG specified in the engine instruction booklet.

AIR CLEANER. A clean filter cartridge, correctly fitted, is ESSENTIAL for long engine life. Service the filter every 25 hours running (more often under adverse conditions) according to the instructions in the engine booklet.

MUFFLER.



A rusted or damaged muffler can permit increased exhaust noise. Check the muffler condition periodically and replace it only with a genuine original equipment part.

SELF PROPELLED -MAINTENANCE

ROTAROLA.

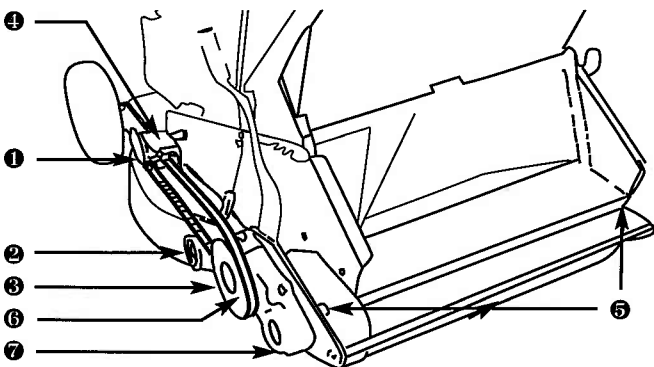
Every 25 hours—

Remove large belt cover by undoing 3 bolts.

- Lubricate tensioner arm pivot ① and tensioner pulley ②.
- Lubricate idler shaft bushes ③, drive shaft bush ④ and bushes at both ends of roller shaft ⑤.

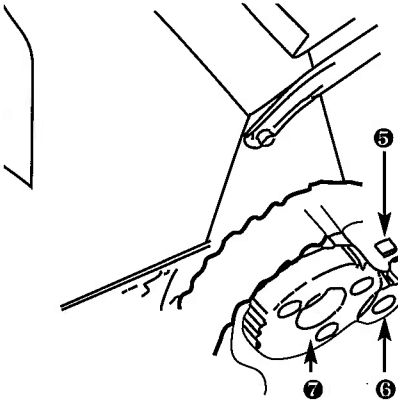
Every 100 hours

- Remove circlip and take off pulley ⑥.
- Remove small chain cover ⑦ by undoing screws.
- Lubricate chain with suitable grease.



Other SP Models

Every 100 hours—Remove each rear wheel by removing the hub cap, and undoing the 8mm nyloc nut and washer retaining the wheel to the axle. Remove the circlip retaining the pinion, taking care not to over stretch it, and remove pinion. Apply grease to pawl ⑤, pinion bore ⑥, and wheel gear ⑦. Take care to replace the pawls exactly as they were when removed, and do not move pinions to the opposite side of the mower.



MAXICUT GEARBOX.

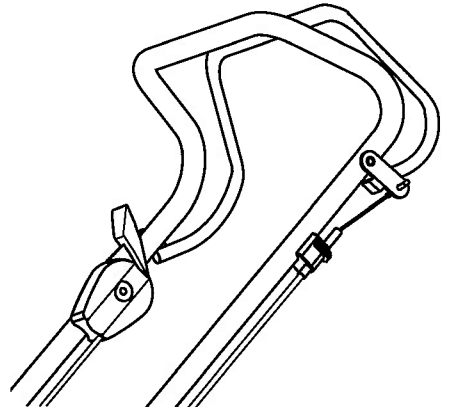
The gearbox on these models is a sealed unit that requires no maintenance. Just keep the outside clean. Should the gearbox require attention take it to your specialist service dealer.

BELT ADJUSTMENT.

Tilt mower, see – STORING THE MOWER section, using two 10mm AF spanners, release the nut and screw holding the gearbox mounting bracket to the housing, above and to the right of the gearbox, just enough to allow the gearbox to be moved. Push the top of the gearbox away from you while pulling the bottom of the gearbox towards you to apply tension to the drive belt. Retighten the nut and screw. (R/H view when looking at underside of tilted mower).

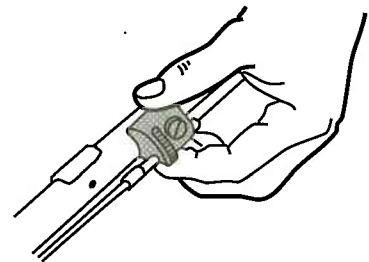
DRIVE CONTROLS

To engage the mower drive, simply push forward on the handle bail until it meets the handle grip. Releasing the pressure on the bail will de-clutch the drive mechanism. Naturally you may use the mower as a push model by gripping the handle in the normal way.



ADJUSTING DRIVE CONTROLS.

Rotate the thumb wheel anticlockwise to increase clutch pressure.



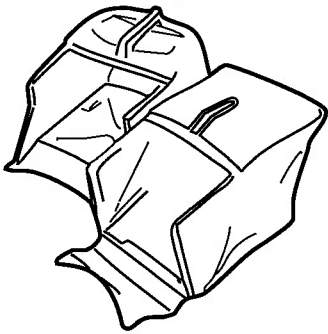
CAUTION

Adjust only to provide positive drive. Excess pressure will cause cable and belt stretch.

CABLE MAINTENANCE.

About once a month, apply a little light oil to the outside of any control cables which are not plastic covered. It will penetrate to the inner wire and maintain a smooth action. Wipe off any excess oil.

THE GRASS CATCHER



ASSEMBLING THE CATCHER

FABRIC GRASSCATCHER.

If necessary, assemble the grasscatcher bag and frame by following the instructions printed on the metal catcher lip.

PLASTIC CATCHER ASSEMBLY

Assemble the Plastic catcher by following the instructions attached to the catcher.

Read the section headed FITTING THE CATCHER, below, before putting the catcher on the mower.



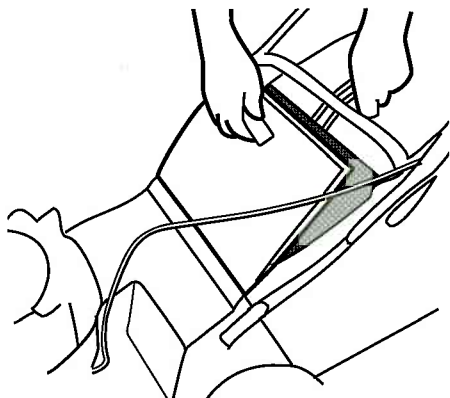
WARNING

THE CATCHER SHOULD BE FITTED TO AND REMOVED FROM THE MOWER ONLY WHEN THE ENGINE HAS STOPPED.

FITTING THE CATCHER—MODELS WITHOUT 'SMART-CHUTE'

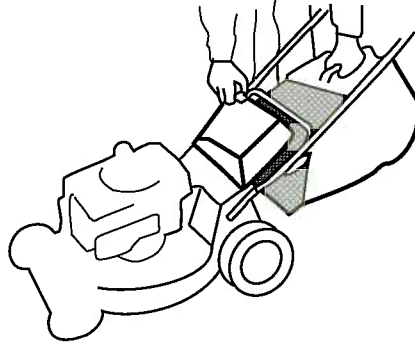
Standing to the right of the mower, reach down with your right hand and pull back and up on the handle of the safety flap and lift it until it is about parallel with the handle. Pick up the catcher with your left hand and swing it into position at the rear of the mower. The catcher lip goes on top of the mower cross-bar. On the Rotarola (only) the catcher has studs on each side, make sure they engage on the hooks at the rear of the mower.

Lower the flap onto the top of the catcher, checking that the rear edge of the flap engages on the lip or bar across the rear of the catcher mouth opening. This will hold the catcher securely in place.



FITTING THE CATCHER—MODELS WITH THE 'SMART-CHUTE'

To fit the catcher, stand to the right of the mower, reach down with your right hand and pull back and up on the handle located at the bottom right hand corner of the 'Smart Chute'. Pick up the catcher with your left hand and swing it into position at the rear of the mower.



REMOVING THE GRASS CATCHER—ALL MODELS



WARNING

ALWAYS WAIT UNTIL THE ENGINE AND BLADE HAVE STOPPED COMPLETELY BEFORE REMOVING THE CATCHER OR ADJUSTING THE MOWER. REMEMBER, THE MUFFLER AND NEARBY AREAS MAY BE VERY HOT.

Stop the engine and stand to the right of the mower. Grasp the catcher handle with the left hand and lift slightly while raising the safety flap with the right hand. Lift the catcher clear and lower the flap to cover the grass discharge outlet.



WARNING

Before clearing away any grass which may have lodged in the grass chute, ALWAYS STOP THE ENGINE, make sure the blade has stopped rotating, AND REMOVE THE SPARK PLUG WIRE.

EMPTYING.

Dump the grass from the catcher by holding it vertical, using the rear handle of the moulded catcher or holding the rear end of the steel frame of the fabric catcher. Shake if necessary to dislodge a full load.

GRASSCATCHER MAINTENANCE.

FABRIC TYPE. These depend on a free flow of air through the fabric for effective grass collection. Wash as needed to restore an open mesh in the fabric. Do not leave a fabric bag in direct sunlight when not in use. While the bag will not rot if stored wet, prolonged sunlight exposure can cause premature breakdown of the material. Do not leave clippings in the catcher for extended periods.



WARNING

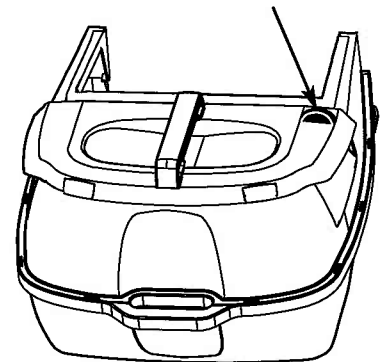
CHECK THE CATCHER BAG FREQUENTLY FOR DETERIORATION AND WEAR, AND REPLACE IF WORN. Use only genuine original equipment replacement catcher bags as others could be dangerous.

MOULDED PLASTIC TYPE. These also need a free passage of air for efficient catching. Keep the air outlet mesh clear by hosing it frequently. Do not leave clippings in the catcher

CATCHER LEVEL INDICATOR.

Some grass catcher models have a Catcher Level Indicator to show how much grass has been collected. The indicator functions only when the engine is running at grass cutting speed. When the catcher is empty, the indicator will show all green, but as the grass progressively builds in height, a red indicator zone will appear and increase in size. Attempting to over-fill the catcher will result in discharge chute blockage or a "dribble" of grass from the front of the catcher. Experience in your particular grass and cutting conditions will soon show the size of the red indicator area corresponding to the ideal catcher emptying point. Hose the catcher thoroughly after each use to keep the indicator movement free.

Level Indicator



MOWING ACCESSORIES

A grass deflector chute for mowing without a catcher is available from your dealer. Not required for 'Smart Chute' models.

MOWING ADVICE

The best time to mow your lawn is the early afternoon. By this time the grass has had a chance to dry out. Also the sensitive newly cut grass area isn't exposed to the direct sun.

For healthy growth, grass should not be cut too short. Using the lowest settings can result in destruction of the crown of grass, allowing flat lying weeds to develop.

Vary your cutting pattern from week to week. One week mow your lawn from north to south, the next week, mow your lawn from east to west. This will help prevent matting and graining of the grass.

For best performance, always keep the mowers blade sharp. A dull blade tends to tear, not cut, the blades of grass.

When cutting very long grass, a preliminary cut on a high setting, followed by a lower cut (preferably a day or so later), will minimise the overall time required for the job.

Do not try to cut too much off the grass at one time. This can cause excessive loads to be put on the engine and also effect the mulching performance.

It is recommended that the lowest cut height setting when mulching is #3. For best results when mulching; cut off only the top third (or less) of the grass. Cutting lower than this will have a detrimental effect on the mulching performance.

When mulching, turning the mower at the end of a strip you may notice unmulched grass. The mower deck is naturally tilted upward when turning so that the air flow which holds the grass in position for recutting is momentarily decreased. After mowing the lawn, you can go back and mow only the turns so that the clippings are no longer visible.

Clean the mowing chamber frequently to remove grass build-up. This will keep mowing performance at its best, especially when mulching. Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action of the mower.

If you are not collecting the cut grass, mow in a pattern that deposits the clippings on the previously cut swathe. So, if your mower discharges clippings on the left, the next cut should be to the right of the previous one, and vice-versa.

If you use the mower often without collecting the clippings, you will find that the accessory grass delivery chute (available from your Dealer for most models) will assist by spreading the clippings more effectively.

When cutting close to obstructions such as tree trunks, and when mowing to the edge of a lawn where there is no wheel support, use the left side of the mower, giving a useful blade 'overhang' for ready access to awkward areas.

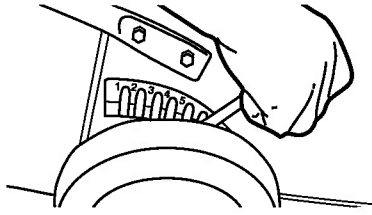


WARNING

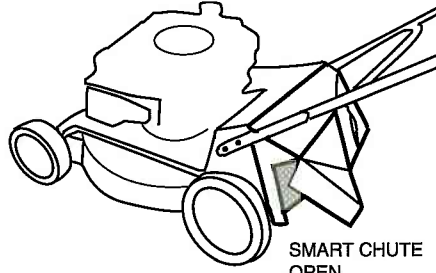
DISCHARGE OPENINGS MUST BE GUARDED AT ALL TIMES. DO NOT REMOVE THE GRASS DEFLECTOR OR HOLD THE SAFETY FLAP UP WHILE MOWING.

CUT HEIGHT CONTROL.

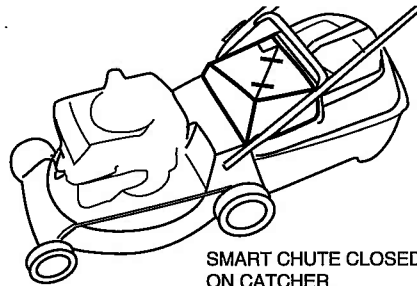
The single point cut height control adjusts all four wheels simultaneously. To operate, steady the mower by grasping the handle with one hand, pull the lever outwards from the mower with the other hand, and move it to the desired setting.



MOWING ADVICE—'SMART CHUTE'



SMART CHUTE OPEN



SMART CHUTE CLOSED ON CATCHER



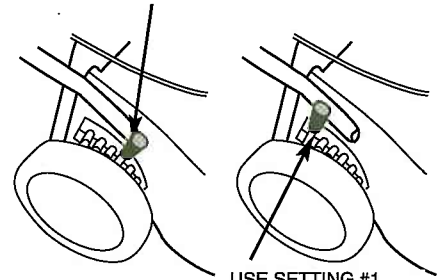
WARNING

Never use the 'Smart Chute' on the catcher with its door open. This could cause damage or injury to property or bystanders.

The 'Smart Chute' allows you to mow without catching the grass or mulching. By simply opening the 'door' located on the bottom left hand corner of the 'Smart Chute', the lawn can safely mown while smoothly spreading the clippings to the left. For wet, heavy or very long grass it is recommend setting the mower

cut height to #4 or more to avoid the possibility of clogging. If clogging becomes persistent because of unfavourable conditions, try walking slower, cutting a narrower strip or raising the cut height more.

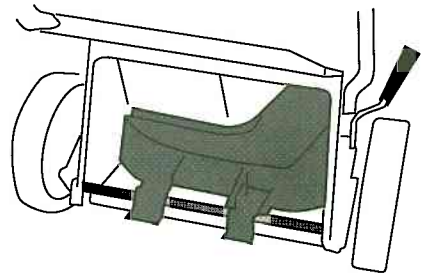
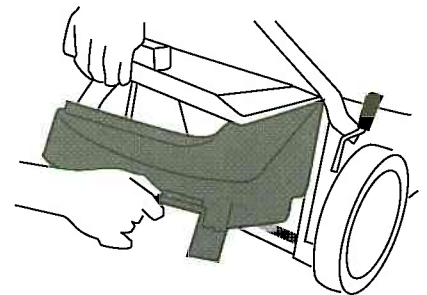
USE SETTING #4 + WITH THE SMART CHUTE OPEN IN WET OR VERY LONG .



USE SETTING #1 WHEN USING THE CHIPPER TUBE.

FITTING THE MULCHING BLOCK TO THE MOWER

1. Stop the engine.
2. Make sure the discharge chute and the underside of the mower are clean. If not, clean the mower using the cyclowash nozzle—refer page 8.
3. Raise the flap, and using the hand hold on the mulching block, insert the mulching block, the angled section to the mowers right, into the discharge chute. Make sure the that the back of the block is sitting on the rear axle. and lower the flap.



TROUBLE SHOOTING

TROUBLE	PROBABLE CAUSE	SOLUTION
Uneven or poor cut.	Blunt blade.	Sharpen blade.
Heavy mulch left on cut strip.	Cutting height is too low for the height of the grass being cut.	Adjust the cutting height to approximately one third of the length of the grass. Then work down to the desired height.
	Engine not running at full speed.	Move the throttle to fast.
	Underside of the mower's deck is clogged with wet grass clippings.	Hose off the underside of the mower using the cyclowash hole in the mower body.

CHIPPER MOWERS



WARNING

Keep feet clear of the mower body when using the chipper tube.

When using the chipper tube place the mower on a level area of land. Where it doesn't matter about being marked by chippings being rotated under the housing. Before starting the mower fit the catcher and set the cut height to #1. Check that the chipper feed tube is clear and the feed intake flap is in good order.



WARNING

Check frequently that the blade is sharp and the retaining screws are tight.

Branches up to 35mm can be chipped using the chipper tube. Only green timber should be chipped, DO NOT chip hard or dry wood. Hard and/or dry woods can place unreasonable loading on the machine causing damage. Check that there are no nails or foreign objects in the material being chipped.



WARNING

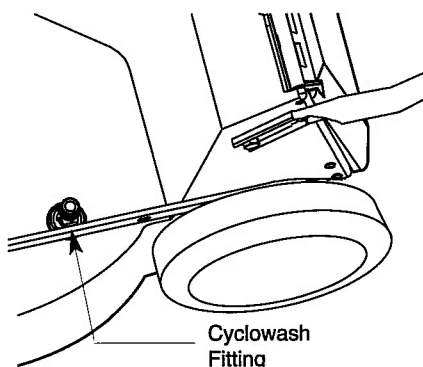
Always stop the engine before attempting to clear any obstruction from under the mower or in the chipper tube.

Slowly feed material into the intake tube. Sturdy gloves, footwear, ear and eye protection should be worn. Clear debris away from around the engine frequently to prevent any restriction with cooling air flow and prevent the risk of fire. Stop the engine before removing the catcher.

AFTER MOWING CLEANING.



MODELS WITH A CYCLOWASH FITTING. Stop the engine and remove the catcher. Attach a garden hose fitting to the cyclowash fitting and start the engine. Allow a good flow of water to run for 2-3 minutes. Stop the engine and remove the hose. Hose the Catcher.



MODELS WITHOUT A CYCLOWASH FITTING.

Stop the engine and remove the catcher. Start the engine. Keeping well clear of moving parts, apply a garden hose to the Wash port with a good flow of water for 2-3 minutes. Hose the Catcher.

MODELS WITHOUT A CYCLOWASH PORT. Stop the engine, when the blade has stopped, disconnect the spark plug wire. Remove the catcher and tip the mower in accordance with the engine instruction book maintenance section. Hose the underside of the mower clean. Hose the catcher.



CAUTION

DO NOT HOSE THE ENGINE, as water can damage the air cleaner and the ignition system. REFER TO ENGINE INSTRUCTION BOOK MAINTENANCE SECTION BEFORE TILTING MOWER. STORE YOUR MOWER ON ITS WHEELS, not its side.

BLADES.

DAMAGED BLADES AND WORN BOLTS ARE MAJOR HAZARDS.

Check the blade mounting bolts at frequent intervals for proper tightness.

Check the blade condition frequently, particularly if the mower has hit a foreign object or is vibrating. Sub-standard cutting and catching will result from a neglected blade. Your Authorised Dealer will be happy to sharpen or replace blades as necessary, or if you prefer, supply the parts you will need to do the job yourself.

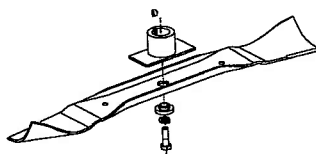


CAUTION

ALWAYS USE GENUINE ORIGINAL EQUIPMENT PARTS TO ENSURE SAFETY AND PROPER PERFORMANCE. Substitute parts can be disappointing and dangerous.

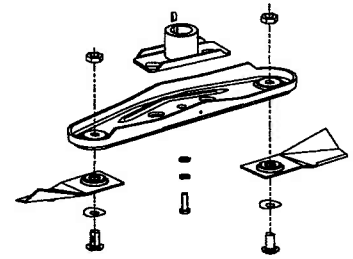
BLADE SERVICING INSTRUCTIONS. BAR AND DISC BLADES.

1. Remove the spark plug lead and position it to prevent accidental contact with the spark plug.
2. Tilt the mower upright -refer to maintenance section of the engine instruction book before tilting the mower.
3. BAR BLADES. Remove the central bolt and spring washer.
4. Remove the stepped washer and then the blade. Either sharpen and balance the old blade, or fit a new one. Assemble in the reverse order, taking care to engage the stepped washer in the hole in the blade.

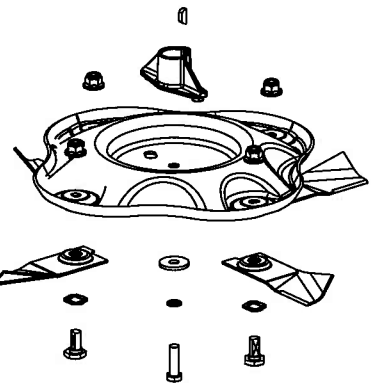


QUICK CUT BLADE/QUADCUT® BLADE.

Follow steps 1 and 2 above. The cutting tips can be removed and replaced by removing the blade carrier from the mower. Note the component positions when dismantling. When refitting the blade carrier ensure the slots fit properly over the lugs of the drive plate, and replace the mounting bolts if they show signs of wear.



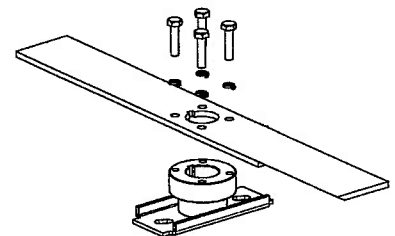
Quick Cut Blade



Quadcut® Blade

CHIPPER BLADE.

1. Follow the servicing instructions for removing 'Bar and Disc Blades' on this page.
2. When the blade carrier is removed from the crankshaft it can be placed in a vice and the chipper blade removed.
3. Either sharpen and balance the old blade, or fit a new one. The mower blade should also be inspected at the same time.
4. Assemble in the reverse order, taking care to align the key with keyway slot in the blade and the blade driver.



BLADE REPLACEMENT TORQUE SETTINGS:-

Blade centre bolt	45 - 50 Nm (33 - 36 ft.lb)
Four chipper blade bolts	9 - 11 Nm (6.6 - 8 ft.lb)
Tip mounting bolt	20 - 25 Nm (15 - 18 ft.lb)