



MASPORT WALK BEHIND OWNER'S MANUAL

IMPORTANT. Please read the Owner's Manual and Warranty before using this product. The Warranty does not cover damage due to misuse or failure to follow the instructions.




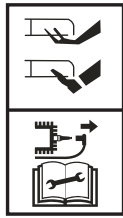








IMPORTANT: Keep these instructions and the engine booklet in a safe place for future reference. They contain important information about your mower.

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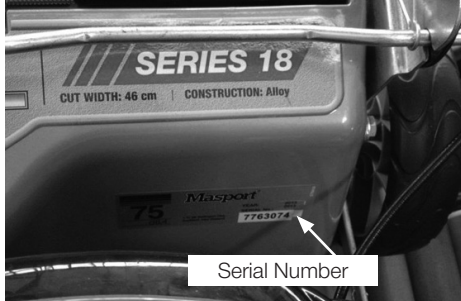
EXPLANATION OF SYMBOLS

- | | | | | | | | | |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. |
|  |  |  |  |  |  |  |  |  |
| 10. | 11. | 12. | | | | | | |
|  |  |  | | | | | | |
| | | | <ol style="list-style-type: none"> 1. Read Owner's Manual 2. Keep bystander away. 3. Drive Clutch 4. Caution rotating blade—keep hands and feet clear. 5. Remove Spark Plug. 6. Variable Speed Drive Control 7. Noise Limit 8. Wear ear protection | | | <ol style="list-style-type: none"> 9. Wear eye protection 10. Wear protective gloves 11. Keep bystanders away 12. Operator presence control bail | | |

THIS MANUAL COVERS A RANGE OF DIFFERENT MASPORT 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.


Record the serial number, you may need this when ordering spare parts.





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.
4. Never mow while people, especially children, or pets are nearby;
5. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or property.

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 barefoot 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, 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.
7. Replace faulty silencers
8. Before using, always visually inspect to see that the blades, blade bolts, and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.

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 grass catcher or unclogging 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. Where a fuel tap is fitted, turn it off at the conclusion of mowing and reduce the throttle setting during runout.

18. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
19. Walk, never run
20. Use extreme caution when reversing or pulling the mower toward you.
21. Stop the blades 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.
22. Do not start the engine when standing in front of the discharge chute.

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 THE HANDLE


Loosen the clamp knobs or 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 handle

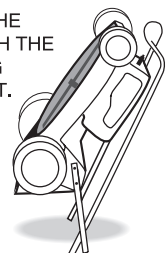
TIPPING THE MOWER SAFELY FOR STORAGE OR INSPECTION.



CAUTION

Tilting the mower - Drain fuel, then tilt the mower with the spark plug uppermost. Remove the spark plug lead.

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
- Preparing the Engine
- Assembling the catcher

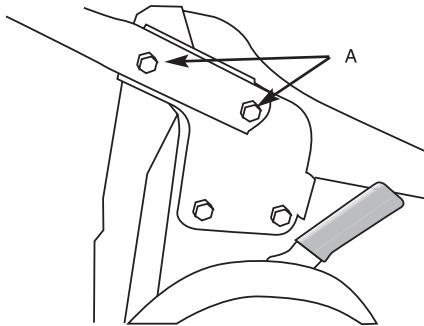
NOTE - The left and right sides of the mower are referred to as viewed from the operating position behind the handle.

FITTING THE HANDLE

In some cases the handle may be completely detached from the mower body although the upper handle may be connected by the throttle control cable. Carefully remove the mower and handles from the box together to avoid damaging the throttle control.

ASSEMBLING THE 'SCREW LOCK' HANDLE.

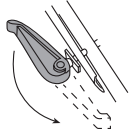
The lower handle is fitted to the mower using the four bolts located in the handle brackets, two on each side, 'A' in the drawing below. To bolt the lower handle to the mower fit the bolts through the lower handle then fit the handle to the mower body and tighten the nuts on the outside of the mounting brackets using a 13mm A/F socket or spanner.



Now attach the upper handle to the lower handle.

ASSEMBLING THE 'CAM LOCK' HANDLE.

Most of these 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 CAMLOCK HANDLES ON SOME MOWERS ARE REVERSED FOR SHIPPING.

The camlock handle should be locked in the upright position, closest to the operator. If they are locked in a downwards position, to turn them around unwind the nut to the end of the thread with a 13mm A/F spanner/socket, pull the camlock handle outwards and rotate it 180°. Retighten the nut until the handle locks firmly in place and it does not change position when in use.

FITTING THE THROTTLE CONTROL

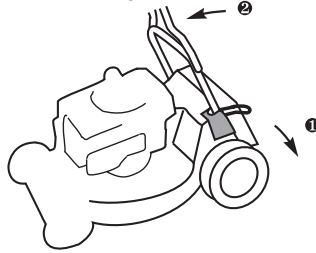
In some cases the throttle control may be completely detached from the upper handle.

Using the bolt and nut attached to the throttle control, attach the throttle on LH side of the upper handle (inside the handle).



ERGO SHIFT

Some handles can be rotated forward to give easy access to the rear flap. Depress the foot lever and push the handle until you feel resistance—in a near vertical position. The handle can be moved back to the mowing position without using the foot lever.



PREPARING THE ENGINE



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

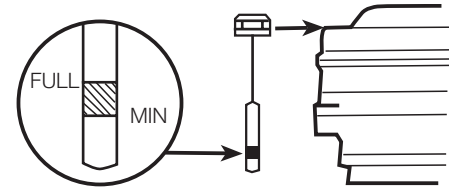


CAUTION

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.

FOUR STROKE ENGINES

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 between the full and min marks on the dipstick. Use SAE 30 engine oil. When checking the oil level, and before running the engine, screw the dipstick firmly in place.



FUEL



WARNING

PETROL VAPOUR IS HIGHLY FLAMMABLE AND EXPLOSIVE. HANDLE WITH EXTREME CARE. STORE IN AN APPROVED CONTAINER. DO NOT FILL TANK WHEN THE 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 THE ENGINE.



CAUTION

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

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 unleaded with octane rating of at least 91. Four stroke engines use straight fuel and do not require mixing.

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 MASPORT. YOUR SPECIALIST MASPORT 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. It operates the choke, if fitted (for cold starting) and allows you to set the governed speed of the engine.

On all models 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 and SLOW.

Some controls have symbols instead of words.

On these,

means CHOKE,

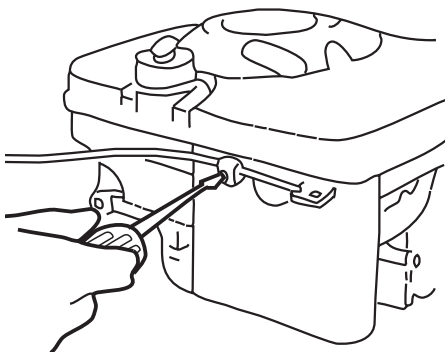
means FAST,

means SLOW,

Please note that not all engines feature a choke control (See RUNNING THE ENGINE, MANUAL START MODELS)

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.



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 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). If your engine does not have a primer bulb either, it is an auto-choke model, allowing you to start at the next step without additional preparation.

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.



Please refer to the Electric Start instructions supplied with your mower.



WARNING

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

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. |
| | 6. Blocked fuel filter. |
| 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

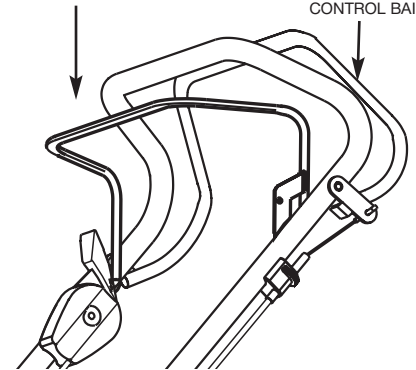
Move the engine control to stop

DRIVE CONTROLS

To engage the mower drive, simply push forward on the SP bail arm 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.

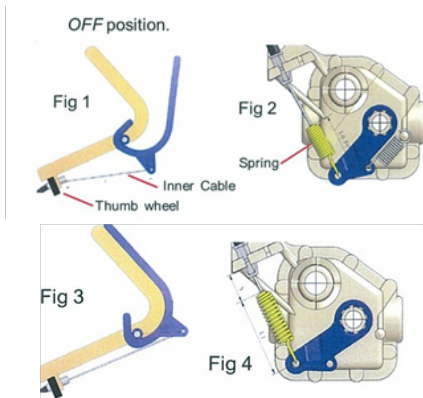
OPERATOR PRESENCE CONTROL BAIL

SELF-PROPELLED CONTROL BAIL

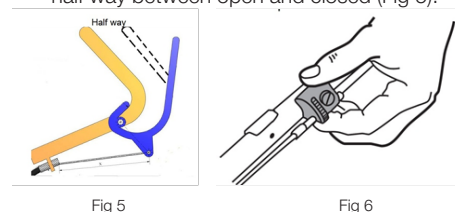


SP DRIVE CLUTCH CABLE ADJUSTMENT

1. Confirm that the cable inner wire will move at least 26 mm when the SP bail is moved from the clutch disengaged (open- Fig1 and 2) position to the engaged (closed-Fig3) position against the handle. The first 13mm moves the lever of the gearbox(Fig4) to the engaged position and the final 13mm gives the spring the desired 140N for the required tension on the gearbox cones to work properly without slipping under load. Adjust the contour of the bail slightly if necessary to achieve this wire stroke.



2. Wheel the mower backwards toward you while gradually closing the SP bail, and note the position of the bail when extra resistance to backward movement indicates that the drive clutch is just engaging. This extra resistance should occur when the SP bail is half way between open and closed (Fig 5).



3. If the engagement point is incorrect, adjust it by rotating the thumb-wheel on the anchor block at the top of the cable outer sleeve. Rotating the wheel clockwise will move the clutch engagement point nearer to the bail closed position, and anti-clockwise will move it toward the bail open position (Fig 6).
4. Confirm that the adjustment is correct by re-testing the engagement point.
5. Repeat this adjustment after 150 hours use of the mower or at any time if the mower drive seems to be slipping.

IMPORTANT: An incorrectly adjusted clutch cable, or using the mower with the SP bail not fully against the handle will cause clutch slippage, gearbox overheating and serious gearbox damage.



CAUTION

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

OPERATOR PRESENCE CONTROL (OPC) BAIL

This is a safety feature which stops the engine quickly if the operator releases their grip on the handle. To start the engine, you must move the bail back and hold it against the handlebar.



WARNING

If the machine run/brake mechanism is not adjusted correctly, or is damaged, the blade could continue to rotate after the OPC arm is released. In this situation, do not use the mower. Contact your local service dealer.

VARIABLE SPEED MODELS

Some models have an extra control mounted at the side of the handle to allow the travel speed of the mower to be varied without changing the engine speed. This control moves into an one

of eight positions. Move the lever forward to increase travel speed and backward to lower it.

THIS LEVER SHOULD BE MOVED ONLY WHILE THE ENGINE IS RUNNING.

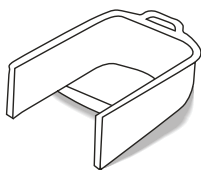
[If it is inadvertently moved back when the engine is stationary the drive belt will slacken and slip. To regain traction, move the lever forward with the drive disengaged and the engine running.]

Speed changes can be made whether the mower is moving or not.

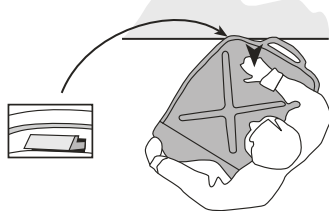
THE GRASS CATCHER

MOULDED PLASTIC CATCHER

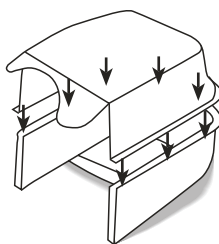
1. Place the top shell on a solid work bench, open side up. Don't use a table which may be damaged by scratching.



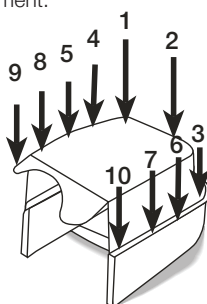
2. Position the bottom shell, upside down, over the top shell, carefully aligning the two parts and ensuring the barbed clips are aligned with their corresponding slots and squeeze the rear handles together.
3. Keeping the catcher upside down, move the assembly so the lip and rear handle is supported by the edge of the bench (see diagram) and catcher is trapped between your body and the bench.



4. Strike the top of the assembly with an open hand above the part supported by the bench. You should hear the barb click into place in its slot - if not, check the alignment and strike again with a little more force.



5. Working from left to right, and starting by the rear handle, move around the catcher, supporting each fastener in turn on the edge of the bench, as it is pushed into engagement.



6. Finally inspect carefully to ensure that all clips are fully engaged.

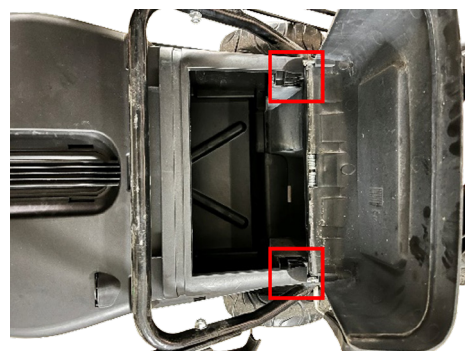
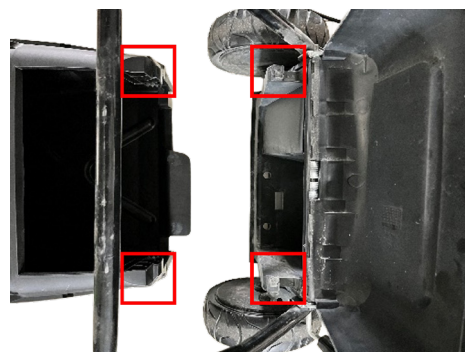
FITTING THE CATCHER



WARNING

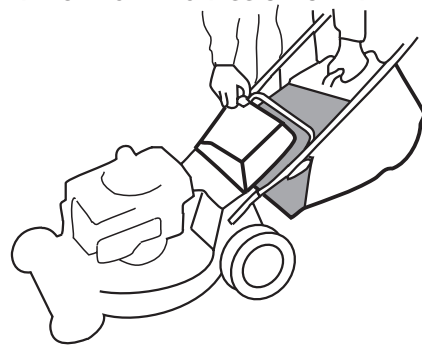
THE CATCHER SHOULD BE FITTED TO AND REMOVED FROM THE MOWER ONLY WHEN THE ENGINE HAS STOPPED.

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 vertical. Pick up the catcher with your left hand and fit the posts of the catcher into the slots on either side of the discharge bracket.



Once the catcher is positioned correctly, lower the flap to hold it in place. Make sure that the rear edge of the flap is fully engaged on the lip or bar at the rear of the catcher mouth.

REMOVING THE GRASS CATCHER



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.

ALL MODELS

Stop the engine and stand to the right of the mower. Grasp the catcher handle with the left hand and lift the safety flap vertically with the right hand. Lift the catcher upwards until unhooked from the mower, removing the catcher and lowering 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

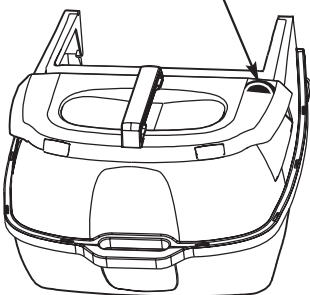
Dump the grass from the catcher by holding it vertical, using the rear handle of the moulded catcher or holding the rear end of the steel frame of the fabric catcher. Shake if necessary to dislodge a full load.

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



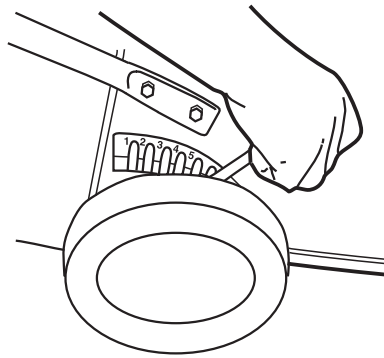
GRASS CATCHER MAINTENANCE

MOULDED PLASTIC TYPE.

These 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.

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

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.

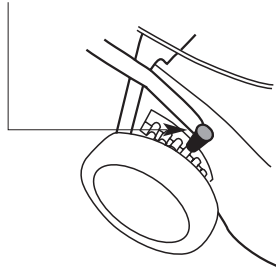
Vary your cutting pattern from week to week. One week mow your lawn from north to south, the next week, mow your lawn from east to west. This will help prevent matting and graining of the grass.

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.

Avoid using the lowest two or three height settings when mulching. 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.

AVOID USING THE LOWEST TWO OR THREE CUT SETTINGS IN WET OR VERY LONG GRASS



As you turn 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.



WARNING

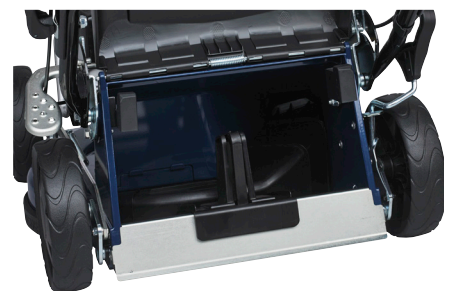
DISCHARGE OPENINGS MUST BE GUARDED AT ALL TIMES. DO NOT HOLD THE SAFETY FLAP UP WHILE MOWING.

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.

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. See AFTER MOWING.
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.
4. Ensure the buckle below the handle of the mulch plug clicks-in to the slot on the bottom of the mower.
5. To check the mulch plug has been installed properly, pull the mulch plug upwards by hand to ensure it is locked in place.

In the case of "open-back" mowers, make sure that the back of the block is sitting on the rear axle before lowering the flap. When fitting the block into a mower with a grass discharge chute, ensure that the plug is well secured. See 'Mowing Advice' for mulching tips.

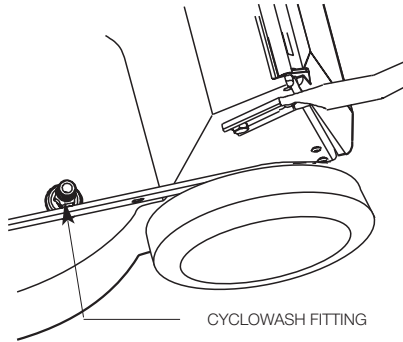


AFTER MOWING

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 mowing 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 (spark plug uppermost). 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 THE ENGINE INSTRUCTION BOOK MAINTENANCE SECTION BEFORE TILTING THE 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.

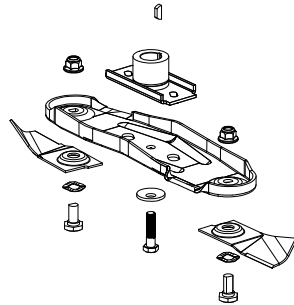


CAUTION

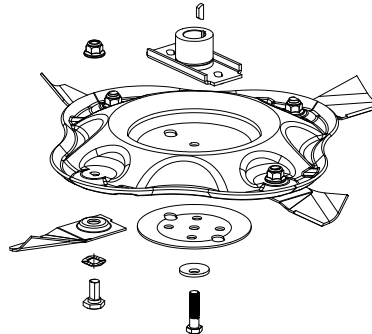
ALWAYS USE GENUINE ORIGINAL EQUIPMENT PARTS TO ENSURE SAFETY AND PROPER PERFORMANCE. Substitute parts can be disappointing and dangerous.

BLADE SERVICING INSTRUCTIONS

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



Quick Cut Blade



QUADCUT® BLADE

BLADE REPLACEMENT TORQUE SETTINGS:

Blade center bolt	45-50 Nm (33-37 ft.lb)
Tip mounting bolt	20-25 Nm (15-18 ft.lb)

ENGINE MAINTENANCE

Consult the engine booklet for the makers instructions.

DRAINING THE OIL.

While most engines have a drain plug underneath them, it will be found more convenient to remove the oil dipstick and tip the mower on its side. Collect the old oil in a suitable tray such as a two litre ice cream container.

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.

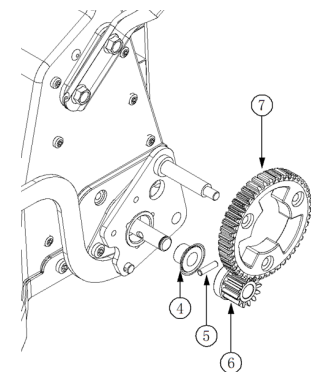


A rusted or damaged muffler can permit increased exhaust noise. Check the muffler condition periodically and replace it only with a genuine original equipment part.

DRIVE MAINTENANCE

SELF PROPELLED MODELS.

Every 100 hours -
Remove each rear wheel by removing the hub cap, and undoing the 8mm nyloc nut retaining the wheel to the axle. Remove the circlip retaining the pinion, taking care not to over stretch it, and remove the pinion. Apply grease to pawl **5**, pinion bore **6**, and wheel gear **7**. Ensure the ratchet sealing shaft sleeve **4** is not damaged. Take care to replace the pawls exactly as they were removed, and do not move pinions to the opposite side of the mower.



GEARBOX.

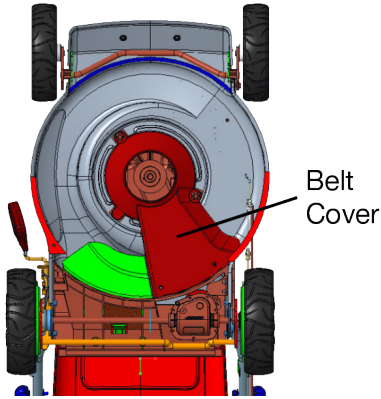
The gearbox on these models is a sealed unit that requires no maintenance. Just keep the outside clean.

CLEANING MAINTENANCE

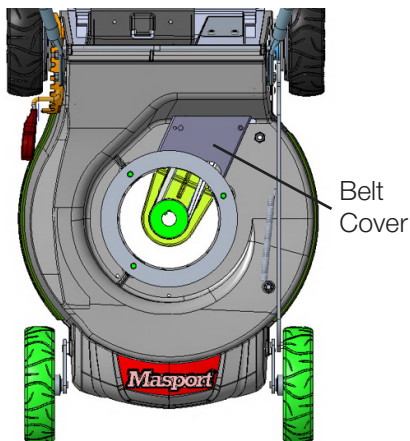
THE FOLLOWING MAINTENANCE IS REQUIRED EVERY 100 HOURS OR WEEKLY IF USED COMMERCIALY (REFERS ONLY TO SELF-PROPELLED MOWERS)

Remove both the drive belt cover and gearbox maintenance port cover.

Steel:



Aluminium:



Gearbox Maintenance Port Cover



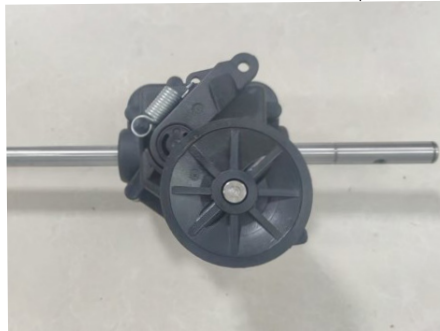
Clean out any debris within the drive belt cavity and around the gearbox. Ensure that there is no grass build up between the gearbox clutch arm and travel stop.



CAUTION

Do not use a pressure washer around the gearbox.

1. Check that the drive belt is tight and has the correct tension.
2. Check that the clutch arm reaches the travel stop when the bail arm is released and adjust if necessary. There should be a small amount of inner wire slack in this position.



3. Replace the covers.
4. Remove both rear wheels and clean out any debris. Grease the teeth on the gears and reassemble.

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 on 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 they cyclowash hole in the mower body

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