JUBILEE

CODES

422V · 423V · 424V (Push) (Push) (Auto Drive)

OWNER'S HANDBOOK

HANDBOOK: 422064 (Rev.0.)

MAIN FEATURES / SPECIFICATIONS

11

HAYTER

12

Main Features

- 1. Primer Bulb.
- 2. Fuel Filler Cap.
- 3. Oil Filler Cap and Dipstick.
- 4. Handlebar Securing Knob.
- 5. Rope Guide.
- 6. Engine Start-Grip.
- 7. Engine Stop lever.
- 8. Handlebar.
- 9. Ground Drive Clutch Lever (Auto drive only).
- 10. Rear Deflector.
- 11. Grassbag Assembly.
- 12. Serial Number Decal.
- 13. Height of Cut Adjuster.
- 14. Spark Plug Lead.

1D42205A

14



Engine	Briggs & Stratton Quantum	n XM 45	
Engine type	127802-2005-E1 (422N/4)	23N)	127802-2004-E1 (424N)
Engine/Cutterbar speed	2900 rpm		
Fuel type	Unleaded petrol		
Fuel capacity	1.5 litres		
Oil type	SAE 30 engine oil		
Oil sump capacity	0.6 litres		
Cutting width	430mm (422N)	480mm (42	3N/424N)
Cutting height	19 - 70mm		
Overall dimensions	1,430 x 550 x 1,050mm (4	22N/423N)	1,550 x 550 x 1,050mm (424N)
Dry Weight	27.7Kg (422N)	29.9Kg (42	3N) 30.4Kg (424N)

13



1.2	Main Features/Specifications
1.3	Contents
1.4	Introduction
1.5	Warranty
1.6 - 1.9	Safety Precautions
1.9 1.9	
1.10	Assembling the Mower
1.10	- Delivery Checklist
1.10	- Handlebar
1.10	- Grassbag Attachment
1.11	Before Starting the Mower
1.11	- Prevent Engine Damage
1.11	- Oil Type
1.11	- Check Oil Level
1.11	- Fuel Type
1.12 - 1.15	Operating The Mower
1.12	- Controls
1.12	- Starting Step 1
1.12	- Step 2
1.12	- Forward Travel
1.13	0
1.13	- Stopping
1.13	1
1.13	0 5
1.14	5 0
1.14	0
1.14	
1.14	
1.15	- Non-Grassed Areas

1.16	- 1.17	Lawn	Care	Calendar	- Guide	Only

1.18 Maintenance Schedule

1.19 - 1.25 Mower Maintenance

- 1.19 Engine
- 1.19 Carburettor Adjustments
- 1.20 Oil Service
- 1.20 Air Cleaner Service
- 1.21 Spark Plug Service
- 1.21 Keeping Engine Clean
- 1.21 Grassbag
- 1.22 Deck Housing
- 1.22 Securing Nuts and Bolts
- 1.22 Clutch Cable Adjustment
- 1.23 Lubrication
- 1.23 Cutterblade Removal
- 1.24 Cutterblade Assembly -Push Models
- 1.24 Cutterblade Assembly -
- Autodrive Models 1.24-1.25 - Cutterblade Sharpening
 - 1.25 Storage
- 1.26 1.27 Trouble Shooting
 1.28 Declaration of Conformity
 1.29 1.31 Parts List
 1.32-1.34 Parts list Diagrams
 1.35 Customer Information/Notes

INTRODUCTION

Thank you for purchasing a **Hayter** mower. The following pages are designed to help you gain safe and efficient service from your mower.

IMPORTANT: This 'Owners Handbook' should be regarded as part of the mower as it gives essential information regarding mower safety, operation, maintenance and specifications. Read and understand this handbook prior to operating your mower for the first time. Make sure you are familiar with all the controls and points of regular maintenance. If you have any doubts, consult your local **Hayter** authorised dealer who will be pleased to give you assistance.

IMPORTANT: This mower is designed solely for use in a domestic grass cutting environment. Use in any other way is considered as contrary to the intended use. Compliance with and strict adherence to the conditions of operation, service and repair as specified in this handbook also constitute essential elements of the intended use.

This mower should be operated, serviced and repaired only by persons who are familiar with its particular characteristics and who are acquainted with the relevant safety procedures.

The safety precautions listed in this handbook and all other generally recognised regulations on safety must be observed at all times.

Any arbitrary modifications carried out to this machine may relieve Hayter Limited of liability for any resulting damage or injury.

Hayter mowers are robustly constructed and designed for efficient economical performance under normal mowing conditions. Correct operation and maintenance will ensure a long and satisfactory service life. Prior to despatch from our factory every effort is made to ensure that your mower is delivered in perfect condition.

Throughout this handbook all references to **left** and **right** are as viewed from behind the handlebar, in the direction of forward travel.

This handbook is based on information available at the time of publication.

HAYTER LIMITED reserve the right to amend product specifications without prior notification.



LIMITED WARRANTY

Hayter Limited warrants to the original user/purchaser that this unit shall be free from defects in material and workmanship under normal use and service for a period of **three years** from the date of purchase. The manufacturer of the engines furnish their own warranty and services are provided through their authorised network (Refer to "Engine Warranty Statement"). To qualify for the full benefit of the warranty, the warranty registration card must be returned within 60 days of purchase. Subject to the conditions and exclusions noted in this limited warranty, we shall at our option, repair or replace any warranted part during the applicable period. If you are in doubt or experience any difficulty, please consult a Hayter Authorised Service Dealer for clarification.

To qualify for the extended warranty (second and third year) of the three year limited warranty the machine must have annual services carried out by an Authorised Hayter Service Dealer. These chargeable services should be carried out within 12 and 24 months of the date of purchase.

Excluded from the extended warranty period are those items which are subject to normal wear and tear e.g. tyres, wheels, cutterblades, cables, batteries and other consumable wearing parts.

All consumer machines which are fitted with a genuine Hayter friction disc as original equipment before use, are covered by a Lifetime Warranty against the engine crankshaft bending. Note: friction washers, blade brake units and other such devices are not applicable. Only machines fitted with a genuine Hayter friction disc, which are used in accordance with the recommended operating and maintenance procedures, are covered.

This warranty does not apply to any unit that has been tampered with, altered, misused, abused or used for hire, and will become invalid if non genuine Hayter parts are fitted. This warranty does not cover minor mechanical adjustments unless they are due to defective material or workmanship. Consult the Owner's Handbook or a Hayter Authorised Service Dealer for assistance when making these adjustments.

A warranty period of 90 days applies to machines used for commercial purposes.

To make a warranty claim, return the unit to a Hayter authorised dealer along with proof of purchase stating the machine serial number and date of purchase. The service receipt(s) or this Owners Handbook with the 1st/2nd year service boxes fully completed, must be produced as proof of entitlement to the extended warranty period. Subject to the conditions and exclusions in this limited warranty, the authorised dealer will, at our option, repair or replace any warranted part within the duration of the warranty period.

This limited warranty gives you specific legal rights and is in addition to any statutory rights to which you may be entitled and your statutory rights are not affected by this warranty. If you need additional information concerning this written warranty, or assistance in obtaining services, please write to : **HAYTER LIMITED, Service Department, Spellbrook, Bishop's Stortford, Hertfordshire CM23 4BU**

UK ONLY: Details of your local **Hayter** authorised dealer are contained in Yellow Pages or contact:- Freephone 0800 616298.

1st Year Service Record	DEALER STAMP	2nd Year Service Record	DEALER STAMP	Leave: 12 10 00
Date.		Dat	e	•
Signe	.d	Sigr	ned	••

SAFETY PRECAUTIONS

Safety Alert Symbol

This safety alert symbol indicates important safety messages. When you see this symbol be alert to the possibility of injury. Carefully read the following and inform others.

Your mower is perfectly safe if used correctly. Failure to observe the following precautions may result in serious injury.



Training

Before using the mower read the owners handbook carefully. Pay particular attention to the safety precautions. Ensure that you are familiar with the controls and the proper use of the equipment. Learn how to stop the mower quickly in an emergency.

Never allow children or people unfamiliar with these instructions to use the mower.

Never mow while people, especially children, or pets are nearby.

Keep in mind that the user is responsible for accidents or hazards occurring to other people or their property.



While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing sandals.

Thoroughly inspect the area where the mower is to be used and remove all objects which may be thrown by the machine.

WARNING: Petrol is highly flammable.

- Store fuel in containers specifically designed for this purpose.
- Refuel outdoors only and do not smoke while refuelling.
- Add fuel before starting the engine. Never remove the cap from the fuel tank or add petrol while the engine is running or when the engine is hot. Allow the engine to cool for at least two minutes before refuelling.
- Do not attempt to start the engine if petrol is spilled or a smell of petrol is present. Move the mower away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated.

SAFETY PRECAUTIONS

Preparation

- Always use fresh fuel. Stale fuel can block the carburettor and cause leakage.
- Replace fuel tank and oil tank caps securely.

A damaged cutterblade or loose fixing bolt are major hazards. Before use, always visually inspect the cutting mechanism to ensure that it is in good condition. A damaged cutterblade must be replaced immediately with a genuine Hayter replacement part.

Do not operate the engine in a confined space where exhaust fumes (carbon monoxide) can collect.

Always pull the starter cord slowly until resistance is felt. Then pull the cord rapidly to avoid kickback and prevent hand or arm injury.

Mow only in daylight or good artificial light.

Avoid using the mower on wet grass, where feasible.

Always be sure of your footing on slopes.

Walk, never run.

Mow across the face of slopes, never up and down.

Exercise extreme caution when changing direction on slopes.

Do not mow excessively steep slopes of more than 20 degrees.

Use extreme caution when reversing or pulling the mower towards you.

Stop the engine before moving the mower across areas other than grass.

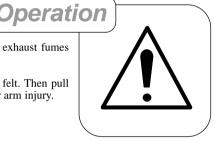
Never operate the mower unless the guards are securely in position and in good condition.

Do not change the engine governor settings or overspeed the engine.

Disengage the ground drive clutch lever before starting the engine. (Autodrive only)

Start the engine carefully, with feet well away from the cutterblade.





SAFETY

Operation



Do not tilt the mower when starting the engine.

Do not put hands or feet near or under rotating parts.

Never pick up or carry the mower while the engine is running.

Never lift the rear deflector while the engine is running.

Never touch the exhaust/exhaust guard or cooling fins when the engine is hot.

Stop the engine and disconnect the spark plug lead:

- Before clearing blockages or unclogging the discharge chute.
- Before cleaning/checking or working on the mower.
- After striking a foreign object. Inspect the mower for damage and ensure necessary repairs are made before re-starting.
- If the mower starts to vibrate abnormally (check immediately).

Stop the engine:

- Whenever you leave the mower.
- Before refuelling.



Maintenance & Storage

Keep all nuts, bolts and screws tight to ensure that the equipment is in safe operating condition.

Frequently check fuel lines and fittings for cracks or leaks and replace if necessary.

Never check for a spark when the spark plug is removed. (Use approved tester)

Inspect the exhaust periodically and replace if worn or leaking.

Never crank the engine with the spark plug removed.

Never start the engine with the air-cleaner or air-cleaner cover removed.

Never store the mower with petrol in the tank within an enclosed area where fumes may reach an open flame or spark.

Maintenance & Storage

SAFETY PRECAUTIONS

Allow the engine to cool before storing in any enclosure. To reduce the fire hazard, keep the engine and the surrounding deck area free of grass, leaves, or excessive grease.

Check the rear deflector and grassbag frequently for wear or deterioration. Replace worn or damaged parts for safety.

If the fuel tank has to be drained, this should be done outdoors and when the engine is cool.

Wear strong work gloves when removing and reassembling the cut-terblade.

Always replace worn or faulty parts with genuine Hayter parts.

Safety Alert - Be aware to the possibility of injury.



Carefully read the Owners Handbook before using the machine.



Height of Cut Adjustment (Symbol)



Danger of severing toes or fingers in cutting mechanism.

Safety Symbols



Stop engine and remove spark plug lead before working on the mower.



Danger of being hit by thrown objects.



Keep bystanders at a safe distance from the mower.



Decal Symbols

Engine Stop





ASSEMBLING

Delivery Checklist



Remove the mower from the packaging and check that the following items have been supplied correctly. If any items are missing contact, your local Hayter dealer.

- 1. Engine Handbook.
- 2. Warranty Reg. Card.
- 3. Grassbag

To prevent accidents cut off the long ribbon attached to the grassbag and discard.



Handlebar

Unscrew the handlebar securing knobs sufficiently to allow the handlebar to pivot. Unfold the handlebar to the operating position. Tighten both handlebar knobs to secure the handlebar in position.

Take care to ensure that the control cables do not become snagged at the pivot point.



Grassbag Attachment

Raise the rear deflector, lower the grassbag through the handlebar and hook in position. Lower the deflector to rest on the grassbag.

BEFORE STARTING THE MOWER

Prevent Engine Damage

To prevent engine damage the engine is shipped without oil or petrol. The engine must be filled with the correct grade of oil and petrol before starting the engine.



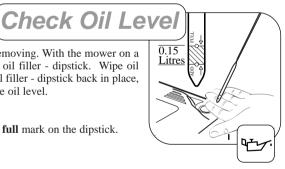
Oil Type

Always use high quality detergent oil classified SAE 30 Oil. Never use additives with this oil.

To prolong the life of your engine it is important that the oil is changed after the first 5 hours of use - refer to 'Maintenance Schedule'.

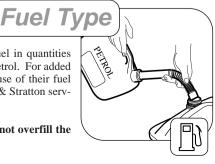
Clean around the oil filler cap before removing. With the mower on a level surface, unscrew and remove the oil filler - dipstick. Wipe oil from it with a clean cloth. Screw the oil filler - dipstick back in place, then unscrew and remove it to check the oil level.

The oil level is correct when it is at the **full** mark on the dipstick. **DO NOT OVERFILL.**

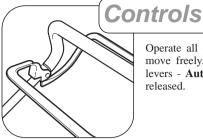


Always use clean, fresh unleaded petrol. Purchase fuel in quantities that can be used within 30 days. Never mix oil with petrol. For added engine protection Briggs & Stratton recommend the use of their fuel additive which is available from an authorised Briggs & Stratton service dealer.

Fill to base of neck to allow for fuel expansion. Do not overfill the fuel tank.



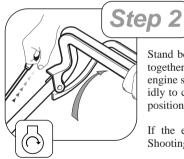




Operate all control levers several times and ensure that the cables move freely. Check that the engine stop and (ground drive clutch levers - **Autodrive model**) return freely to their rest position when released.

Starting - Step 1





Stand behind the mower and hold the handlebar with your left hand together with the engine stop lever. With your right hand hold the engine start - grip and pull slowly until resistance is felt, then pull rapidly to crank the engine. Carefully return the start grip to the storage position when the engine starts.

If the engine does not start after 5 attempts - refer to "Trouble Shooting".



Forward Travel

Push Models - Hold and push against the handlebar with both hands to move the mower forward.

Autodrive models - Hold the handlebar and operate the ground drive clutch lever to power the mower in a forward direction.

When the ground drive clutch lever is disengaged the mower may be pushed. This feature is useful when mowing in confined areas.

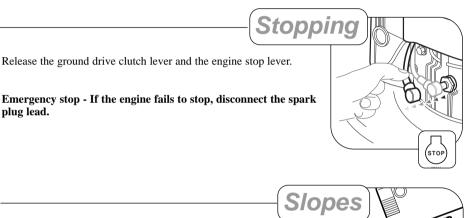
If the engine stop lever is released the engine will stop.

OPERATING THE MOWER

To make a wide turn steer the mower with the handlebar in the direction required.

To make a tight turn (release the ground drive clutch lever, **Autodrive model**), apply downward pressure on the handlebar to raise the front wheels just above ground level and steer in the required direction.

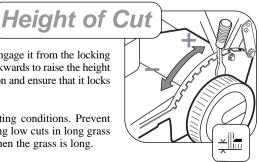
To prevent accidents do not raise the front of the mower excessively when making a turn. Never raise the rear of the mower when the engine is running.



To prevent engine damage do not use the mower on slopes greater than 20 degrees.

Move the height of cut lever sideways to disengage it from the locking notch, then push forwards to lower or pull backwards to raise the height of cut. Release the lever in the required position and ensure that it locks firmly into one of the nine notch settings.

Always select a height of cut to suit operating conditions. Prevent engine overloading and blockages by avoiding low cuts in long grass conditions. Be prepared to make two cuts when the grass is long.



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20°



OPERATING THE MOWER

Before Mowing



To prevent accidents thoroughly inspect the area and remove all objects which when contacted by the cutterblade could become dangerous projectiles. Inspect the area for hidden obstructions which when contacted by the cutterblade could risk health and safety. Remember the location of these obstructions and ensure that you mow around them.



Grassbag

Lift the grassbag through the handlebar and close the rear deflector to rest against the rear of the mower.

To empty the grassbag, pour out the grass clippings and shake the grassbag vigorously to clean the airways. Good grass collection depends on good air flow through the grassbag. When collecting grass clippings it is important that the grassbag is emptied regularly to prevent blockages and engine overloading.

Withou Remove the close

Without Grass Collection

Remove the grassbag and operate the mower with the rear deflector in the closed position.



Heavy Growth

To prevent engine overloading and blockages be prepared to make two cuts in areas of heavy growth. If collection is required, first mow the area at the maximum height of cut setting with the grassbag fitted. Reduce the height of cut and mow the area again as necessary until the required finish is obtained.

To prevent grass damage do not remove more than one third of grass height in one cut.



Non-Grassed Areas

When moving the mower across non-grassed areas, stop the cutterblade and set the mower to the maximum height of cut to protect the cutting mechanism.



LAWN CARE CALENDAR

To be used as a guide only.

lanuarv

There is very little work to do this month apart from brushing away leaves. Keep off the grass if frozen or waterlogged.

-ebruar

Rake the grass thoroughly. Spike the lawn to aerate and stimulate soil organisms and root growth and apply lawn sand if necessary.

March

The yearly lawn work programme really starts this month. As soon as the ground conditions are suitable, the first cut can be made. The first cut should merely "top" the grass as close cutting at this stage could result in severe yellowing or browning. Two cuts are generally sufficient this month.

Intervention

Mow often enough to stop grass growing away. Dig out patches of coarse grass or resistant weed. Re-seed bare patches.

May

Keep mowing increasing the frequency as required. Treat with selective weed killers or combined weed/feed preparations if you did not feed the lawn in April.



Summer mowing should now be under way. It should be necessary to mow the lawn twice a week. Raking before mowing is important this month as the combined action keeps runners of clover under control. Water the grass if necessary, and remember to soak thoroughly.

Julv

Treat the grass with the second application of fertiliser or weed killer/fertiliser. Water when necessary and rake occasionally. As a general rule the grass clippings should be removed each time you mow. If weather conditions are dry and hot and the grass is weed free, leave the clippings on the lawn to help maintain ground moisture.

LAWN CARE CALENDAR



Keep mowing regularly and watering as necessary. Fill any cracks caused by drought with a mixture of sharp sand and soil. In dry weather conditions leave the grass longer to help retain ground moisture.



Raise the height of cut to allow the grass to thicken and protect the roots from the winter frost and snow.



Rake out the thatch from the turf and spike the lawn to assist in drainage. Brush in peat and sharp sand.

November

Use a stiff broom to disperse worm casts before mowing. Keep turf free from leaves.



Apart from brushing away leaves, December is a slack end of a busy year. Keep off the lawn if it is very wet or frozen.

To prevent grass damage do not remove more than one third of the grass height in one cut.

MAINTENANCE

Follow the hourly or calendar intervals, whichever occurs first. More frequent service will be required if working for prolonged periods under dusty, dry conditions, or when airborne debris is present or after extensive operation cutting tall, dry grass.

First 5Hrs

• After the very first five hours change the engine oil



- Check the oil level
- Remove grass debris from around the engine, exhaust/exhaust guard and air ways in the top cowl and underside of the deck housing.
- Remove grass debris from the grassbag and check for signs of damage.
- Check the condition of guards and safety devices and cutterblades
- Check condition of cutterblade.



- Change the engine oil if continuously operating under heavy load or high ambient temperature.
- Service the air cleaner.
- Lubricate wheels, pivot points and linkages and grease the inner control cables at point of entry and exit from their outer casing.
- Check the clutch cable adjustment. (Autodrive Model)
- Sharpen the cutterblade.



Change the engine oil.

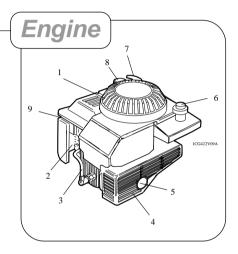


- Clean the engine cooling system. Clean more often under dusty conditions or when airborne debris is present or after prolonged operation whilst cutting tall, dry grass.
- Replace the spark plug.

To prevent accidents stop the engine, disconnect the spark plug lead before attempting to carry out maintenance procedures on the mower.

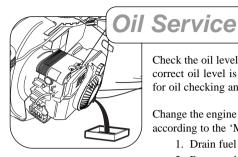


- 1. Finger Guard
- 2. Carburettor
- 3. Spark Plug / Lead
- 4. Exhaust Guard
- 5. Exhaust
- 6. Oil filler Cap/ Dipstick
- 7. Start Grip
- 8. Fuel Cap
- 9. Air cleaner.



Carburettor Adjustments

Should only be made by an authorised Briggs & Stratton dealer. Under no circumstances should the engine be adjusted to run at a speed in excess of that shown on the Declaration of Conformity.



Check the oil level daily before starting the engine and ensure that the correct oil level is maintained. Refer to-'Before Starting the Mower' for oil checking and filling instructions.

Change the engine oil after the first 5 hours of operation and thereafter according to the 'Maintenance Schedule':-

- 1. Drain fuel by running the engine until the fuel tank is empty.
- 2. Remove the spark plug lead.
- 3. Allow the engine to cool.
- 4. Drain the oil while the engine is warm.(Not hot)
- 5. Tip the mower over on to its left hand side thus ensuring that the air cleaner is kept uppermost **to prevent engine damage.**
- 6. Remove the oil filler dipstick and drain the oil into a suitable container.
- Refill with new oil of the recommended SAE viscosity grade. (Refer to-'Before Starting the Mower')



Air Cleaner Service

To service the air cleaner, loosen screw (1) and remove cover (2).

Remove cartridge (3) and clean by tapping gently on a flat surface. If very dirty, replace.

- Do not use petroleum solvents.
- Do not use pressurised air.
- Do not oil the cartridge.

After servicing, install the cartridge in the cover. Insert the tabs on the bottom of the cover into the slots in the bottom of the base (4). Tilt the cover upwards and securely tighten the screw to the base.

Spark Plug Service

Use only Briggs & Stratton spark tester (1) to check for a spark as shown in the diagram.

Replace the spark plug every 100 hours or every season, whichever occurs first. A spark plug wrench is available from any authorised Briggs & Stratton service dealer.

Check the spark plug gap with a feeler gauge and set at 0.76mm.





Keeping Engine Clean

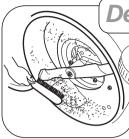
Remove all grass and debris from the engine including the exhaust/exhaust guard, the air ways in the top cowl and the surrounding deck areas on a daily basis after use. Never spray the engine with water during cleaning. Water can contaminate the fuel. Always clean with a brush or compressed air.

Grass and debris may clog the engine's air cooling system especially after prolonged operation while cutting tall, dry grass. The internal cooling fins and surfaces may require cleaning to prevent overheating and engine damage. We recommend that this service be carried out by an authorised Briggs and Stratton dealer.



Grassbag Remove grass debris from the grassbag immediately after use and check its condition for signs of damage. To prevent accidents replace a damaged grassbag immediately.





Deck Housing

Remove grass debris from the top and underside of the deck housing immediately after use.

Fertilisers and top dressings are particularly corrosive. Thoroughly clean the mower deck immediately after use on treated grass and store well away from corrosive materials.



Securing Nuts & Bolts

Regularly check that all securing nuts and bolts are tight. Replace missing or damaged items immediately.

Clutch Cable Adjustment

Autodrive Models - Check the clutch cable operation every 25 operating hours and adjust if necessary. The clutch cable is adjusted correctly when the belt drive just engages with the clutch lever positioned 32-38mm from the handlebar.



32-38mm

Unscrew the lock nuts (1) and screw the adjuster (2) in or out as necessary. Tighten the locknuts (1) when correctly adjusted.

Lubrication

Lubricate the wheels, pivot points and linkages with engine oil every 25 operating hours.

Apply a good quality medium grease to the inner control cables at the point of entry and exit from their outer casing.

Cutterblade Removal

Drain the fuel by running the engine until the fuel tank is empty and the engine stops. **Remove the spark plug lead** and allow the engine to cool. Turn the mower on its left hand side and ensure that the air cleaner side of the engine is uppermost.

Firmly grip the end of the cutterblade with the gloved hand and remove the bolt securing the cutterblade.

To prevent accidents never work on the cutterblade unless the spark plug lead has been removed. The cutterblade has sharp edges. ALWAYS wear strong gloves to protect your hands when working on the cutterblade. DO NOT rotate tools towards the cutting edges to avoid the risk of injury should the tool slip. ALWAYS use genuine Hayter replacement parts.

The condition of the cutterblade and its mounting arrangement should be checked regularly for signs of wear or damage. Ensure that the cutterblade is not bent or cracked.

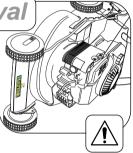
A damaged cutterblade that is out of balance will vibrate excessively and may break. DO NOT use an unbalanced cutterblade.

Regularly check that the bolt securing the cutterblade is tightened to the specified torque of 54Nm.

Replace the cutterblade every 2 years of sooner if excessively worn or damaged.

To prevent injury it is wise to seek assistance when turning the mower on its side.



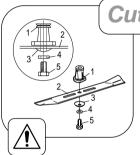




Cutterblade Assembly - Push Models

Assemble the cutterblade (2) with the turned up edges facing towards the engine. Secure the cutterblade using the friction washer (3) and new fixing bolt (4) and tighten to a torque of 54Nm.

To prevent accidents never reuse the original fixing bolt.



Cutterblade Assembly - Autodrive Model

Assemble the cutterblade (2) with the turned up edges facing towards the engine. Secure the cutterblade using the belleville washer (3), washer (4) and new fixing bolt (5).

To prevent accidents never reuse the original fixing bolt.



Cutterblade Sharpening

A slightly worn cutterblade may be re-sharpened. Both blade edges must be sharpened equally to ensure balance. Sharpen the cutterblade every 25 mowing hours or more frequently if conditions require. Remove the cutterblade from the mower and clean using a brush and water. Inspect the cutterblade for signs of damage.

Sharpen both cutting edges with a flat file to restore performance.



Ensure that the cutterblade is balanced. Use a screw driver with a round shaft to support the cutterblade through its centre hole. Hold the cutterblade horizontal and then release. A balanced cutterblade will remain horizontal.

Cutterblade Sharpening Continued.

If the cutterblade is not balanced the heavy end will rotate downwards. Sharpen the heavy end until the cutterblade is correctly balanced.

To store the handlebar unscrew the 2 small securing knobs sufficiently to allow it to pivot forwards to rest against the mower. Take care to ensure that the control cables do not become snagged at the pivot point and depress the engine stop lever to prevent it being damaged through contact with the engine spark plug.

Engines stored in excess of 30 days need to be protected with Briggs & Stratton fuel additive or drained of fuel to prevent gum from forming in the fuel system or on essential carburettor parts. To ensure your mower is maintained in good working order it is important that the following procedure is adopted. Refer to the Maintenance section as necessary.

Drain fuel from the engine by operating the engine until it stops.

Disconnect the spark plug lead.

Change the engine oil.

Remove the engine spark plug and pour 15ml of engine oil into the engine cylinder and replace the spark plug. Do not exceed the stated volume of oil as engine damage may occur on re-starting. **Do not replace the spark plug lead**. Slowly pull the engine start - grip once to crank the engine. This will distribute the oil and help prevent engine corrosion.

Clean grass and debris from the engine cylinder, cylinder head cooling fins, under top cowl, and around and behind exhaust/exhaust guard.

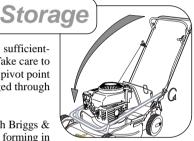
Clean all other areas of the mower and ensure that the grassbag is clean.

Lubricate the mower.

Treat metal parts with a water repellent anti-corrosion product.

Cover the mower with a protective sheet and store it in a dry, ventilated area.





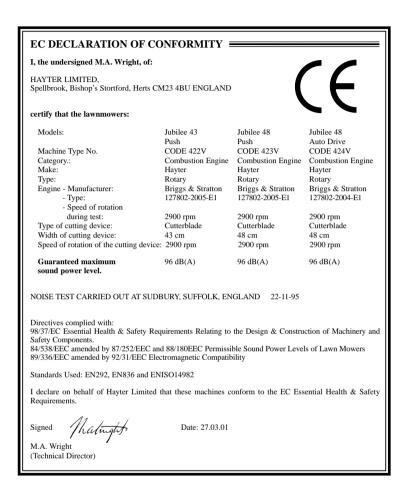
TROUBLE

PROBLEM	POSSIBLE FAULT	REMEDY		
Engine will not turn over	Incorrect oil level.	Check oil level.		
	Obstruction under deck.	Remove obstruction.		
Engine smokes	Excess oil level.	Check oil level.		
	Air cleaner cartridge oil soaked or blocked.	Service air cleaner.		
Engine runs then stops	Fuel starvation.	Fill fuel tank.		
	Fuel cap vent blocked.	Clean fuel cap vent.		
Engine will not start	Engine under load.	Raise height of cut.		
	Fuel starvation.	Fill fuel tank.		
	Engine cold.	Push primer.		
	Incorrect/contaminated fuel.	Drain fuel tank and fill with correct fuel.		
	Spark plug lead disconnected.	Connect spark plug lead.		
	Faulty spark plug.	Clean and adjust gap or replace.		
	Wiring fault.	Check wiring.		
Engine runs rough	Spark plug lead becoming disconnected in use.	Connect spark plug lead.		
	Faulty spark plug.	Clean and adjust gap or replace.		
	Air cleaner blocked.	Service air cleaner.		
	Incorrect/contaminated fuel.	Drain tank and fill with correct fuel.		

TROUBLE SHOOTING

PROBLEM	POSSIBLE FAULT	REMEDY
Engine vibrates excessively	Mounting bolts loose.	Tighten bolts
	Cutterblade bolt loose.	Tighten bolt
	Cutterblade out of balance.	Balance cutterblade
	Bent crankshaft.	Consult your dealer
Uneven cut	Undulating ground conditions	Change direction of travel
	Cutterblade worn	Sharpen the cutterblade
	Cutterblade out of balance	Balance the cutterblade
	Wheels	Inspect and replace as necessary
Discharge chute blocks	Grass is wet	Mow dry grass
	Cut height too low	Increase cut height
	Grassbag full	Empty grassbag
	Airflow through the grassbag is restricted	Clean the grassbag
Mower is hard to push	Cut height too low	Increase cut height
	Wheels damaged	Inspect and replace as necessary
Mower will not self propel	Clutch out of adjustment (Autodrive Model)	Adjust clutch cable
	Drive belt damaged	Replace drive belt
Poor grass collection	Airflow through the grassbag is restricted	Clean the grassbag
	Discharge chute blocked	Remove blockage
	Wet grass	Mow dry grass
	Grassbag full	Empty grassbag
	1	1

DECLARATION OF CONFORMITY



VIBRATION INFORMATION =

Lawnmower vibration information. RMS acceleration measured in 3 - axes at operators contact position on the handlebars. CODE 422V = 7.0 ms². CODE 423V = 7.0 ms². CODE 424V = 7.0 ms².

PARTS PART NO. NO. DESCRIPTION **QTY ITEM NOTE** 422V 423V 424V Deck - Mainframe 43. Deck - Mainframe 48. Engine - Ouantum 45. Engine - Quantum 45. Cover - Wheel 200mm. Nut - M8 Binx. ZNB1H000U Wheel - 200mm. Wheel - 200mm Driven. Washer - Dia. 12.7 Wavy. Washer - M12 L.D. Plain. ZWP1L000U Stub Axle. Bush - Bearing. Cover - Wheel, Internal. Ratchet - Gear. Pinion - Differential Right. Pinion - Differential Left. Circlip.

16	Nut - M10 Flange.	63-11-015	4	4	4
17	Guard - Belt.	424013	0	0	1
18	Belt - Vee.	424012	0	0	1
19	Gear Box.	424029	0	0	1
20	Connecting Rod - 48.	423010W	0	1	1
	Connecting Rod - 43.	422040W	1	0	0
21	Screw - M6 x 16.	09362	3	3	3
22	Nut - M6 Nyloc T Type.	09544	4	4	4
23	Bracket - Rear Axle.	422032	2	2	2
24	Axle - Front W/A.	422062	1	1	1
25	Bracket - Front Axle.	422033	2	2	2
26	Wheel - 180mm.	422043	2	2	2
27	Cover - Wheel 180mm.	422045	2	2	2
28	Spring - Tension.	424014	0	0	1
29	Spring - C/Balance.	422037	1	1	1
30	Bolt - 3/8 UNF x 2"	09121	0	0	1
31	Washer - Plain.	09271	0	0	1
32	Cutterbar 43.	422031	1	0	0
	Cutterbar 48.	423004	0	1	1
33	Washer - Belleville	MU17X137	0	0	1
34	Blade Adaptor Pulley.	424003	0	0	1
35	Key - Woodruff.	1662	1	1	1
36	Screw - No8 x 1/2" Plastic Pan Hd	09729	8	8	8
37	Screw - Taptite UNC 3/8" x 11/4".	09349	3	3	3
38	Decal - Hayter & Royal Warrant.	300157	1	1	1
39	Decal - Height of Cut.	320006	1	1	1

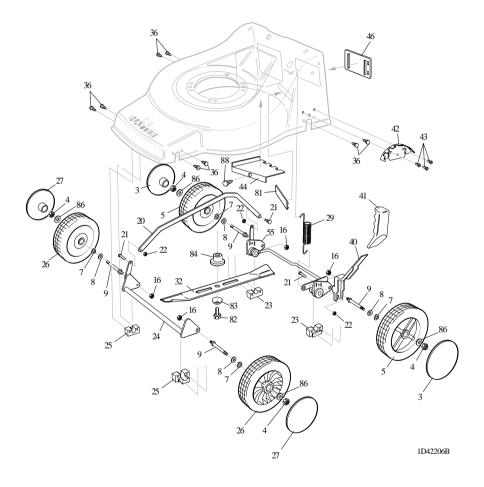
Lever - Height of Cut.



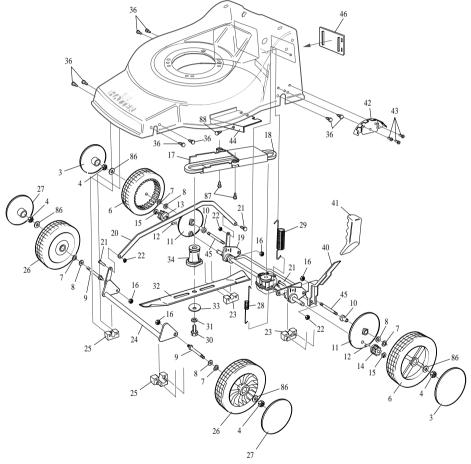
NO.	DESCRIPTION	PART NO.		QTY		ITEM NOTE
			422V	423V	424V	
41	Cover - Lever Height of Cut.	422034	1	1	1	
42	Quadrant - Height of Cut.	422035	1	1	1	
43	Rivet - Dia. 5/32".	09317	3	3	3	
44	Throw Plate 43.	422028	1	0	0	
	Throw Plate 48.	423003	0	1	1	
45	Stub Axle.	424004	0	0	2	
46	Cover - Battery.	422026	1	1	1	
47	Handlebar - Lower.	422001W	2	2	2	
48	Setscrew - M8 x 16.	ZDH1H010		4	4	
49	Nut - M8 Nyloc.	09441	4	4	4	
50	Plug - Tube Dia. 7/8".	320048	2	2	2	
51	Decal - Engine.	422012	1	0	0	
01	Decal - Engine.	423005	0	1	Ő	
	Decal - Engine.	424016	0	0	1	
52	Lever - Clutch.	306094W	0	0	1	
53	Handlebar - Upper.	305091W	1	1	1	
54	Lever - Engine.	340179	1	1	1	
55	Axle Assy - Rear.	422063	1	1	0	
56	Washer - Plain M6.	09472	1	1	1	
57	Guide - Rope.	305093	1	1	1	
58	Bolt - Handlebar M8 x 45.	226024	2	2	2	
58 59	Knob - Handlebar Triangular.	226013	2	$\frac{2}{2}$	$\frac{2}{2}$	
60	Guide - Rope.	305127	1	1	1	
61	Grommet.	09722	0	0	1	
01	Grommet - Blanking Plug.	70-07-014	1	1	0	
62	Screw No. 14 x 16	09725	1	1	1	
62 63		422014	1	1	1	
65 64	Cover - Stop. Pin - Pivot.	340182	2	2	2	
65	Washer - Nylon.	09688	6	6	2	
66	Screw - Dia 6 x 20 PT Pan Flange		2	2 4	2	
67 68	Fastener - Drive.	300144	4		3	
68	Deflector - Rear.	422065	1	1	1	
69	Frame - Grassbag.	422002W	1	1	1	
70	Grassbag - Fabric.	422003	1	1	1	
71	Grassbag - Full Assembly.	422010	1	1	1	Includes Items.69 & 70
72	Decal - Caution.	219189	1	1	1	
73	Cable Tie.	3966	3	3	3	
74	Cable - Engine Brake.	312002	1	1	1	
75	Screw - Taptite M5 X 35.	09358	1	1	1	
76	Nut - M4 Nyloc Insert	09657	0	0	1	
77	Screw - M6 x 12 Taptite.	09546	2	2	2	
78	Setscrew - M4 x 35	09704	0	0	1	
79	Clutch Cable - Bracket Stop.	306108	0	0	1	
80	Cable - Clutch.	424002	0	0	1	

			(P	4 <i>R</i> (TS LIST
NO.	DESCRIPTION	PART NO.		QTY		ITEM NOTE
			422V	423V	424V	
81	Plug - Drive Aperture.	422027	1	1	0	
82	Bolt - 3/8"UNF x 11/2".	09118	1	1	0	
83	Washer - Friction.	MU17X137	1	1	0	
84	Blade - Adaptor.	MU42734	1	1	0	
85	Decal - Engine Stop.	331046	1	1	1	
86	Washer M8 x 17 x 1.6	09475	4	4	4	
87	Screw - Self Tap	09748	0	0	2	
88	Screw - No. 10 x 1/2"	09533	1	1	1	
89	Washer - M4	09658	0	0	1	
90	Cover - Rear Deflector	422066	1	1	1	
91	Pin - Rear Deflector	422067	1	1	1	Not Illustrated.
92	Spring - Rear Deflector	422068	1	1	1	Not Illustrated.
93	Bush - Oiltite	424030	0	0	2	Not Illustrated.

422V/423V LOWER MAINFRAME

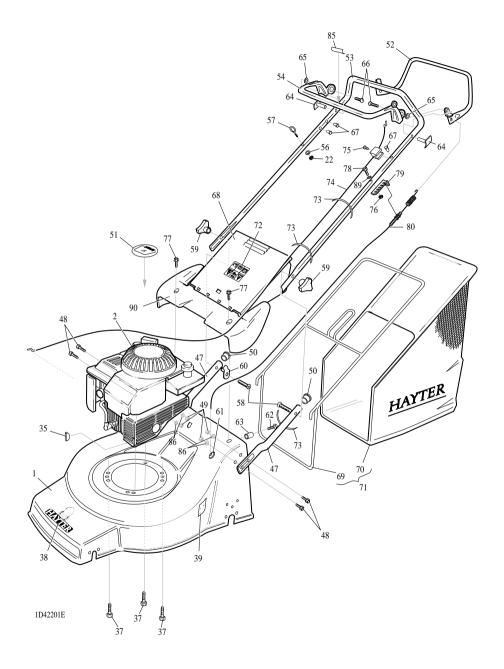


424V LOWER MAINFRAME



1D42204D

422V/423V/424V UPPER MAINFRAME



CUSTOMER INFORMATION / NOTES

Mower Serial No:.....

	-	G 1
Engine Model:	Type:	Code:

Notes: