



BY APPOINTMENT
TO HER MAJESTY THE QUEEN
MANUFACTURERS OF
AGRICULTURAL MACHINERY
HAYTER LIMITED
SPELLBROOK, BISHOP'S STORTFORD, HERTS

HAYTER

MAKERS OF THE FINEST MOWERS

HARRIER
56

CODE 343N

(Blade Brake Clutch)

OWNER'S HANDBOOK

CERTIFICATE OF CONFORMITY

I, the undersigned A. D. BONE, of ;

HAYTER LIMITED, Spellbrook, Bishop's Stortford,
Herts, CM23 4BU,
ENGLAND.

certify that the lawnmowers;

1. Model No.
2. Category.
3. Make.
4. Type.
5. Engine- Manufacturer.
 - Type.
 - Speed of rotation during test.

CODE 343N
343N
Combustion Engine
Hayter
Rotary
Briggs & Stratton
12F882-1570-21
3000 rpm

Conforms to the specifications of Directive 84/538/EEC as adapted to technical progress by Directive 87/252/EEC and amended by Directive 88/180/EEC.

Guaranteed maximum sound power level.

100 dB(A)

- Type of cutting device.
- Width of cutting device.
- Speed of rotation of the cutting device.

Cutterblade
56 cm
3000 rpm

TESTED AT SUDBURY,
SUFFOLK, ENGLAND.

16-02-96

Signed:



A.D. Bone
(Technical Manager).

EC DECLARATION OF CONFORMITY

Company Name

HAYTER LIMITED.

Company Address

Spellbrook Lane West
Spellbrook
Bishop's Stortford
Herts. CM23 4BU
ENGLAND.



Machine Type No.
Models

Code 343N
Harrier 56 (Blade Brake Clutch)

Directives complied with:

89/392/EEC amended by 91/368/EEC, 93/44/EEC and 93/68/EEC.
Essential Health & Safety Requirements Relating to the Design & Construction of Machinery and Safety Components.
84/538/EEC amended by 87/252/EEC and 88/180/EEC Permissible Sound Power Levels of Lawn Mowers.
89/336/EEC amended by 92/31/EEC Electromagnetic Compatibility.

Standards Used: BS5107, EN292, EN50081 and EN50082.

I declare on behalf of Hayter Limited that these machines conform to the EC Essential Health & Safety Requirements.

Signed:



Date: 21-03-96

A.D. Bone
(Technical Manager).

Lawnmower vibration information. RMS acceleration measured in 3 - axes at operators contact position on the handlebars. Code 343N = 9.0ms⁻²

343016LC210396C

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INTRODUCTION

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

IMPORTANT : Read and understand this handbook prior to operating your machine for the first time. Make sure you are familiar with all the controls and points of regular maintenance. If you have any doubts, consult a **Hayter** authorised dealer who will be pleased to give you assistance.

All **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 your machine arrives in perfect condition.

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

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

HAYTER LIMITED reserve the right to make changes at any time without notice.

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 two years from the date of purchase. To qualify for the full benefit of the warranty, the warranty registration card must be returned within 60 days of purchase. This warranty does not cover engines or wearing parts i.e. cutterbars, wheels and tyres. If you have any doubt, consult a **Hayter** authorised dealer for clarification. 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. Engine manufacturers furnish their own warranties and provide services through their authorised network. If you experience any difficulty, please contact a **Hayter** authorised dealer.

To qualify for the second twelve month period of the above two year limited warranty, the machine must be serviced by a **Hayter** authorised dealer. This chargeable service should be carried out within 14 months of purchase and be in accordance with the recommendations for service determined by **Hayter**.

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 materials or workmanship. Consult the owners handbook or a **Hayter** authorised 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 indicating the machine serial number and purchase date. 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, Herts. CM23 4BU.**

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

Freephone 0800 616298.

SAFETY PRECAUTIONS

THIS SYMBOL MEANS BE ALERT! YOUR SAFETY IS INVOLVED. EXERCISE GREAT CARE AND FOLLOW THE ADVICE GIVEN TO AVOID POTENTIALLY HAZARDOUS SITUATIONS.

The Harrier 56 is perfectly safe if used correctly. Failure to observe the following simple precautions may result in serious injury.

Training:

Read the instructions carefully. 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.

Preparation:

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.



If petrol is spilled, do not attempt to start the engine but move the mower away from the area of spillage. Avoid creating any source of ignition until petrol vapours have dissipated.



Replace faulty silencers.

SAFETY PRECAUTIONS

Continued.



Always ensure that the mower is in a safe operating condition. Frequently check all nuts, bolts and screws for tightness. Use only genuine **Hayter** replacement parts.



A damaged cutterblade and loose fixing screws are major hazards. Before use, 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. Cutterblades which are slightly worn can be resharpened. Ensure that both cutting edges are resharpened equally to maintain balance. An unbalanced cutterblade may cause serious damage to your machine.

Refer to "Maintenance."

Operation:

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



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.



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



Stop the cutterblade if the mower has to be tilted for transportation when crossing surfaces other than grass and when transporting the mower to and from the area to be mowed.



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 rear roller drive clutch and the cutterblade clutch before starting the engine.

SAFETY PRECAUTIONS

Continued.

Operation continued:

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



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 a mower while the engine is running.



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.



Stop the engine:

- Whenever you leave the mower.

- Before refuelling.

- After striking a foreign object. Inspect the mower for damage and make repairs before restarting and operating the mower.

- If the mower starts to vibrate abnormally (check immediately).










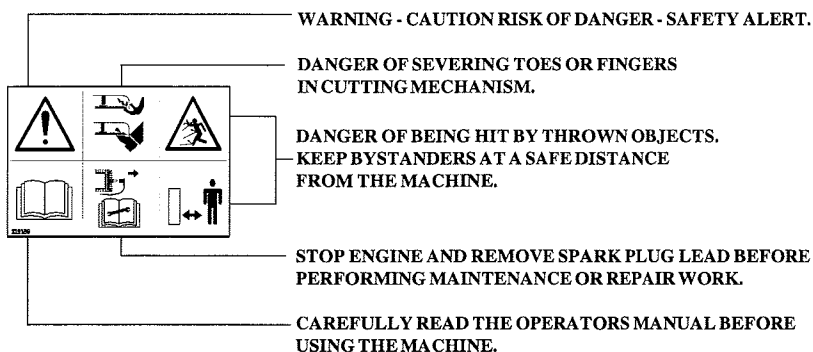
When using the machine without the grassbag, do not lift the deflector plate whilst the mower is in operation.

SAFETY PRECAUTIONS

Continued.

Maintenance and storage:

-  Keep all nuts, bolts and screws tight to ensure that the equipment is in safe operating condition.
-  Never store the mower with petrol in the tank within an enclosed area where fumes may reach an open flame or spark.
-  Allow the engine to cool before storing in any enclosure.
-  To reduce the fire hazard, keep the engine, silencer and petrol storage area free of grass, leaves, or excessive grease.
-  Check the grassbag frequently for wear or deterioration.
-  Replace worn or damaged parts for safety.
-  If the fuel tank has to be drained, it is essential that this be done outdoors.

DECALS**WARNING DECAL: Part No. 219189**

CUT HEIGHT ADJUSTMENT DECAL:
Part No. 320006

**ENGINE SPEED DECAL:**

SPECIFICATIONS

MODEL	CODE 343N Self Propelled
Engine	Briggs & Stratton Quantum XTL 50
Engine type	12F882-1570-21
Engine / cutterblade speed	3000 rpm
Fuel type	Unleaded petrol.
Fuel capacity	1.5 litres (2.6 UK pints)
Oil type	SAE 30 engine oil
Oil sump capacity	0.6 litres (1.1 UK pints)
Cutting width	560mm (22 inch)
Cutting height	10 - 60mm (0.375 - 2.25 inch)
Overall dimensions	1,511 x 591 x 1,156mm (59.5 x 23.3 x 45.5 inch)
Dry Weight	47.4Kg (104.5 lbs)

ASSEMBLY INSTRUCTIONS

SAFETY NOTICE

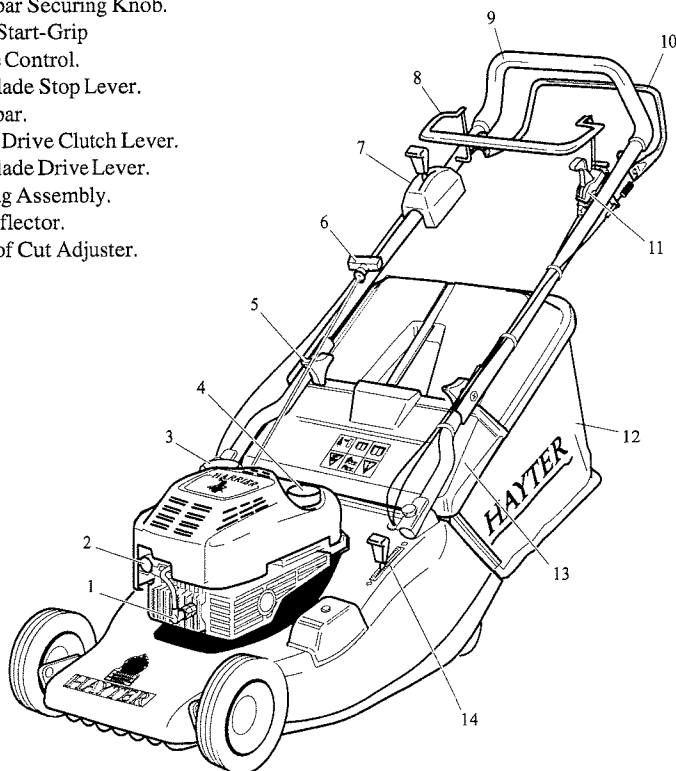


Before using the mower, read this owner's handbook carefully.
Pay particular attention to the safety precautions.



GENERAL ASSEMBLY

- 1 Spark Plug Lead.
- 2 Primer Bulb.
- 3 Fuel Filler Cap.
- 4 Oil Filler Cap and Dipstick.
- 5 Handlebar Securing Knob.
- 6 Engine Start-Grip
- 7 Throttle Control.
- 8 Cutterblade Stop Lever.
- 9 Handlebar.
- 10 Ground Drive Clutch Lever.
- 11 Cutterblade Drive Lever.
- 12 Grassbag Assembly.
- 13 Rear Deflector.
- 14 Height of Cut Adjuster.



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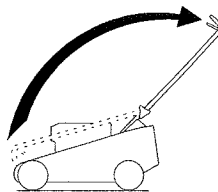
ASSEMBLING THE MOWER FOR THE FIRST TIME

Check that parts are delivered correctly: Remove the mower from the packaging and check that all loose items have been supplied correctly. Refer to the delivery checklist opposite and the general assembly. If any items are missing, contact your local Hayter Dealer.

DELIVERY CHECKLIST

Description	Quantity
Grassbag	1
Owner's Handbook	1
Engine Handbook	1
Warranty Registration Card	1

Assemble the handlebar: Unscrew the knobs securing the handlebar sufficiently to allow it to be pivoted. Move the engine stop lever away from the engine to avoid damage and unfold the handlebar to its operating position. Tighten the two knobs to secure the handlebar, ensure that the knobs are assembled to the outside of the handlebars.

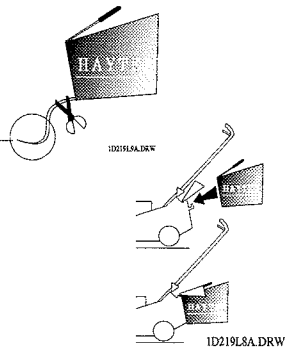


CAUTION - PREVENT DAMAGE : When unfolding the handlebar, take care to ensure that the controls and cables do not become damaged. Always replace damaged controls and cables before using the mower.

Assemble the grassbag: Identify the grassbag and remove the long ribbon label (when fitted) by cutting it off close to the grassbag. Discard the ribbon label.



WARNING - AVOID ENTANGLEMENT : Completely remove this ribbon before using the mower



Raise the rear deflector and connect the grassbag to the upper mounting points. Lower the grassbag to rest against the rear of the mower. Finally lower the rear deflector to rest against the top of the grassbag.

ASSEMBLING THE MOWER FOR THE FIRST TIME

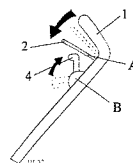
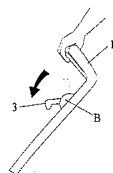
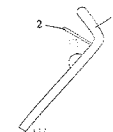
Continued.

CAUTION: Cutterblade drive lever (B) flies back when cutterblade stop lever (A) is released. Take care and keep hands and fingers clear.

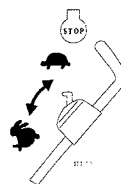
Check cutterblade brake/clutch: Operate the cutterblade stop lever (A) several times, to ensure the lever moves freely and automatically returns from being against the handlebar (1) to the forward position (2) when it is released.

Use your right hand to hold the cutterblade stop lever against the handlebar (1) and then use your left hand to operate and engage cutterblade drive lever (B) in its forward position (3), then remove your left hand. The cutterblade drive lever should remain engaged in the forward position (3).

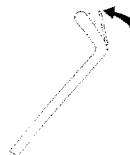
Remove your right hand and check that the cutterblade stop lever automatically returns to its forward position (2) and that the cutterblade drive lever is automatically disengaged and returns to its rearward position (4).



Check throttle lever operation: Operate the throttle lever several times and ensure that the cable moves freely whilst operating the engine throttle mechanism.



Check clutch lever operation: Operate the clutch lever several times and ensure that the cable moves freely.

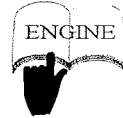


PREVENT ENGINE DAMAGE: The engine is shipped without oil or petrol. The engine must be filled with the correct grade of oil and petrol before starting the engine - refer to "Before starting the engine".

STARTING THE ENGINE

BEFORE STARTING THE ENGINE

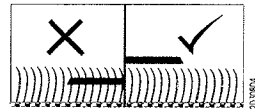
Read the engine operating and maintenance instructions handbook supplied with this mower.



WARNING: The cutterblade rotates when the engine is operating and cutterblade drive is engaged.

ALWAYS operate the cutterblade control lever several times and ensure correct operation before starting the engine.

ALWAYS position the mower on a level stone free surface before starting the engine. Ensure that the cutterblade is set above grass height to prevent the engine being started under load.

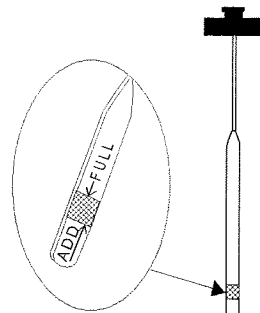


Check oil level: With the mower on a level surface, unscrew and remove the oil filler - dipstick. Wipe oil from it with a clean cloth. Screw the oil filler - dipstick back in place, then unscrew and remove it to check the oil level.

The oil level is correct when it is between the **add** and **full** marks on the dipstick.

Add SAE 30 engine oil as necessary and replace the oil filler-dipstick.

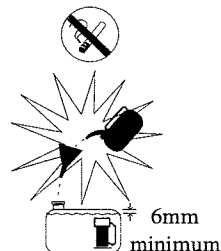
IMPORTANT: The oil filler - dipstick must be secured when the engine is running.



Check fuel level: Remove the fuel filler cap and fill the fuel tank with clean unleaded petrol.

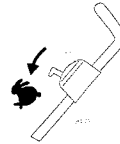
Do not overfill the fuel tank. Allow 6mm minimum of tank space for fuel expansion.

IMPORTANT: The fuel filler cap must be secured when the engine is running.



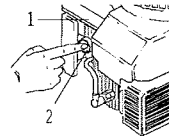
TO START THE ENGINE

Operate the throttle control lever: Push the lever to the fast position.



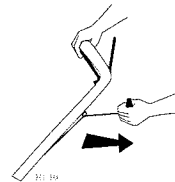
Operate the primer bulb: *Note: Push on the primer bulb 5 times at two second intervals to provide the extra fuel to start the engine after assembling the mower for the first time.*

Push on the primer bulb 3 times at 2 second intervals to provide the extra fuel required to start a cold engine. Operation of the primer bulb is usually unnecessary when starting a warm engine.



1. Engine
2. Primer Bulb.

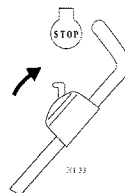
Operate the engine start - grip : Stand behind the mower and maintain a firm hold on the handlebar to prevent the mower moving towards you. Use your right hand to hold the engine start-grip and pull rapidly to crank the engine. When the engine starts carefully return the engine start - grip to the storage position. If the engine does not start after 5 attempts - refer to "Fault Finding".



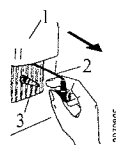
IMPORTANT: Prevent engine damage. Never pull the engine start-grip when the engine is running.

STOPPING THE ENGINE

Stopping the engine: Operate the throttle control lever to its rearmost position to stop the engine.



Emergency stop: If the throttle control lever fails, disconnect the spark plug lead to stop the engine.

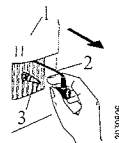


1. Engine.
2. Spark Plug Lead.
3. Spark Plug.

SAFETY NOTICE

WARNING: PREVENT ACCIDENTAL STARTING -
Always stop the engine and disconnect the spark plug lead before cleaning, inspecting or working on the machine.

1. Engine.
2. Spark Plug Lead.
3. Spark Plug.

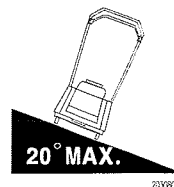


CAUTION: Before mowing, thoroughly inspect the area where the mower is to be used and remove all stones, sticks, wires, bones and other foreign objects, which when contacted by the mower cutterblade could become dangerous projectiles.

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.

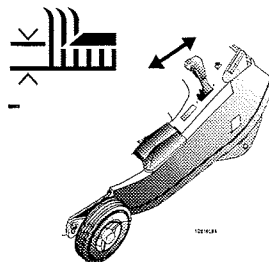


CAUTION: Prevent engine damage - DO NOT use the mower on a slope greater than 20 degrees.

**HEIGHT OF CUT**

To adjust the height of cut: Grip the lever and pull sideways to disengage it from the locking notch, then push forwards to lower or pull backwards to raise the height of cut. Finally release the lever at the required position and ensure it locks firmly into one of the nine setting notches.

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



TRAVEL

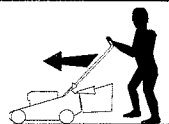
Forward travel: Hold the handlebar and operate the clutch lever to achieve forward travel.

Travel speed is controlled by engine speed. Increase engine speed to increase forward travel speed.

Release the clutch lever to stop forward travel.

When the clutch lever is disengaged the mower can be operated as a push model. This feature is useful when mowing in confined areas.

Reverse travel: Disengage the clutch lever. Hold and pull against the handlebar with both hands to reverse the mower towards you.



WARNING: PREVENT ACCIDENTS - Always reverse the mower carefully towards you. Always switch off the engine before walking backwards with the mower.

NOTE: The travel speed can be reduced, if desired, by using an optional 'Kit - Speed Reduction' Part No:- 219207 which is available through your Hayter Dealer.

TURNING THE MOWER

To make a wide turn : Steer the mower with the handlebar whilst travelling forward.

To make a tight turn : Stop forward travel. Apply downward pressure on the handlebar to raise the front wheels of the mower just above ground level and steer the mower using the handlebar in the required direction.



WARNING: 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.

MOWING WITH GRASS COLLECTION

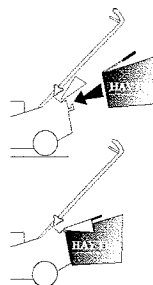
The grassbag is designed to collect grass clippings.

To achieve best grass collection performance, mow at maximum engine speed in dry operating conditions.

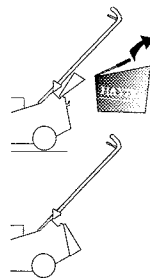
Recognise that when the grassbag is full the airflow stops and the grassbag deflates.

! WARNING: PREVENT ACCIDENTS - ALWAYS check the condition of the grassbag for signs of damage. Replace a damaged grassbag immediately. DO NOT operate the mower with a damaged grassbag. ALWAYS stop the engine and disconnect the spark plug lead before attempting to remove a grass blockage.

Grassbag attachment: Raise the rear deflector and connect the grassbag to the mounting points. Rest the grassbag against the rear of the mower and finally lower the rear deflector to rest against the top of the grassbag.



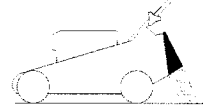
Grassbag removal: Raise the rear deflector and lift the grassbag away from the mower. Finally lower the rear deflector to rest against the rear of the mower.



Grassbag emptying: 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.

MOWING WITHOUT GRASS COLLECTION

To mow without collecting the grass clippings, remove the grassbag and operate the mower with the rear deflector in its lowest position.



WARNING: PREVENT ACCIDENTS - ALWAYS check the condition of the rear deflector for signs of damage. Replace a damaged rear deflector immediately. Never operate the mower with a damaged rear deflector.

HEAVY GROWTH

Areas of heavy growth should be mown without grass collection. If grass collection is required first mow the area without grass collection at the maximum height of cut setting. Allow the grass clippings to dry out and then 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.

TRANSPORTING THE MOWER

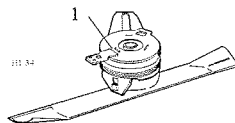
Set the mower to its maximum height of cut to protect the cutting mechanism when transporting the mower over surfaces other than grass.



WARNING: PREVENT ACCIDENTS - Transport the mower carefully at slow walking speed with the engine switched off or with the cutterblade drive disengaged.

CUTTERBLADE OPERATION

General Information:- The cutterblade is driven by the engine via a brake/clutch device (1) which enables the cutterblade to be engaged /disengaged using control levers whilst the engine is running. The cutterblade will stop within five seconds of releasing the cutterblade stop lever to its forward position.

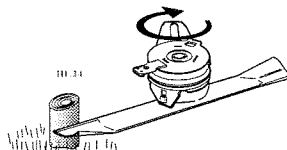


1. Cutterblade brake/clutch



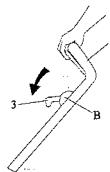
WARNING: PREVENT ACCIDENTS - DO NOT operate the mower if the cutterblade fails to stop within five seconds. Return the mower to your Hayter dealer for examination and repair.

A friction device in the brake/clutch helps prevent damage occurring to the cutting mechanism when a hidden obstruction or overload is encountered. When the obstruction or overload situation is removed the friction device will automatically reset.



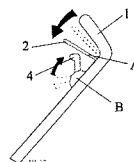
WARNING: PREVENT ACCIDENTS - ALWAYS disengage cutterblade device stop the engine when a hidden obstruction or excessive vibration is encountered. Disconnect the spark plug lead and examine the cutting mechanism. ALWAYS replace a damaged cutterblade - refer to "Maintenance".

Engaging Cutterblade Drive: Use your right hand to hold the cutterblade stop lever against the handlebar (1) and then use your left hand to operate and engage the cutterblade drive lever (B) in its forward position (3), then remove your left hand. The cutterblade drive lever should remain engaged in the forward position (3).



Disengage Cutterblade Drive: Release the cutterblade stop lever (A) to disengage cutterblade drive.

Observe the cutterblade stop lever returns to its forward position (2) and the cutterblade drive lever is automatically disengaged/ returns to its rearward position (4) when cutterblade drive is disengaged.



Emergency stop : If the cutterblade drive mechanism fails, stop the engine.



WARNING: PREVENT ACCIDENTS - Do not operate the mower with a faulty cutterblade drive mechanism, ALWAYS have your mower repaired by your local authorised Hayter dealer.

MOWING AND GRASS CARE TIPS

In dry weather conditions leave the grass long to help retain ground moisture.

Aerate the lawn to stimulate soil organisms and root growth. In spring and late summer remove dead grass and aerate the lawn by raking or using a purpose made product.

Maintain a sharp cutterblade. A blunt cutterblade will tear the grass and cause the tips to turn brown

Prevent scalping. Plan your direction of travel to mow across hollows and humps.

Prevent grass damage. Stop forward travel when making a turn.

Prevent grass damage. DO NOT mow in wet conditions.

Brush the lawn surface to disperse worm casts before mowing.

Spike compacted lawn areas with a fork. Fill the holes with sand to improve aeration and drainage.

Mow lawns in a different direction to the previous cut.

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.

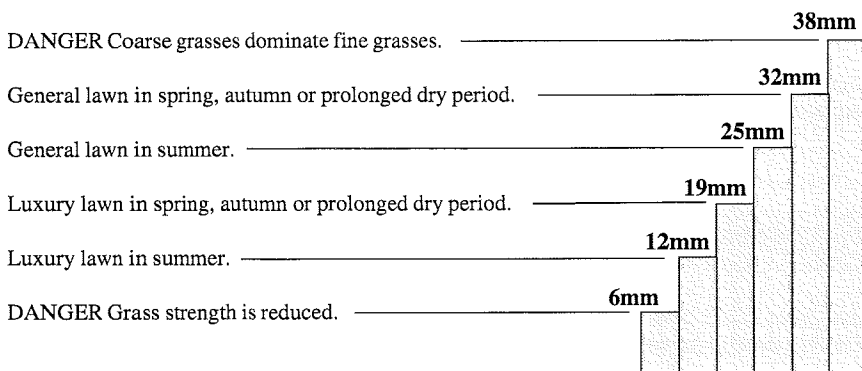
Mow lawns twice a week when the grass is growing vigorously in the summer.

Mow lawns once a week in spring, autumn and during prolonged dry weather in the summer.

MOWING AND GRASS CARE TIPS

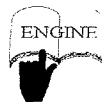
Continued.

Prevent grass damage - DO NOT remove more than one third of the grass height in one cut.

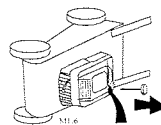
Recommended grass heights for lawns:

MAINTENANCE**ENGINE**

Engine handbook: For details of engine maintenance refer to the engine operating and maintenance instructions handbook supplied with your mower.



IMPORTANT - Draining engine oil: To drain the engine oil, first drain fuel by operating the engine until the fuel tank is empty and the engine stops. Remove the spark plug lead and allow the engine to cool. Position the mower on its left hand side and ensure that the air cleaner side of the engine is kept uppermost. Remove the oil filler-dipstick to drain the oil.

**GRASSBAG**

Remove grass debris from the grassbag immediately after use and check its condition for signs of damage.



WARNING: PREVENT ACCIDENTS - ALWAYS replace a damaged grassbag immediately.

**DECK HOUSING**

Remove grass debris from the deck housing and around the engine immediately after use.

SECURING NUTS AND BOLTS

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

**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 casings.

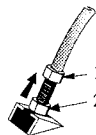
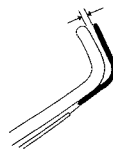
**CLUTCH CABLE ADJUSTMENT**

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 (1.1/4"-1.1/2") from the handlebar.

Unscrew the locknut and screw the adjuster as necessary. Tighten the locknut when correctly adjusted.

IMPORTANT: Prevent damage - ALWAYS operate the mower with the clutch cable correctly adjusted. ALWAYS replace damaged cables.

32 - 38 mm
1.1/4" - 1.1/2"



1. Adjuster
2. Locknut

CUTTERBLADE

WARNING: 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** operate 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 screws securing the cutterblade are tightened to the specified torque of 35Nm (77.2 lbs. ft.).

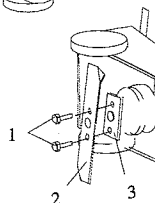
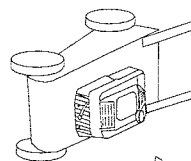
Replace the cutterblade and screws every 2 years or sooner if excessively worn or damaged.

How to remove the cutterblade: Drain the fuel by operating 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.

CAUTION: PREVENT INJURY - It is wise to seek assistance when turning the mower onto its side.

Firmly grip the end of the cutterblade with the gloved hand and remove the two fixing screws (1) and distance piece (3) securing the cutterblade (2).

How to assemble the cutterblade: Assemble the cutterblade (2) with the turned up edges facing towards the engine. Fit the distance piece (3) secure the cutterblade using two new fixing screws (1) HayterPart No: 09732 and tighten to 35 Nm torque.



- 1. Fixing Screw
- 2. Cutterblade.
- 3. Distance Piece



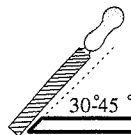
WARNING: PREVENT ACCIDENTS - Never reuse the two fixing screws. Always use new cutterblade fixing screws when refitting or replacing the cutterblade.

CUTTERBLADE

Continued.

How to sharpen and balance the cutterblade: A slightly worn cutterblade may be re-sharpened. All cutting edges must be sharpened equally to ensure balance. Sharpen the cutterblade every 25 mowing hours or more frequently if conditions require.

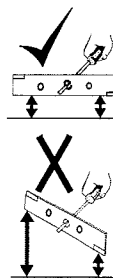
Remove the cutterblade from the mower and clean using a brush and water. Inspect the cutterblade for signs of damage.



DO NOT use a damaged or excessively worn cutterblade.

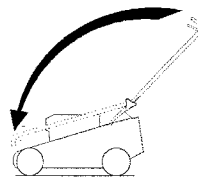
Sharpen all the cutting edges with a flat file to restore the original cutting edge.

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



PREPARING THE MOWER FOR STORAGE

Handlebar storage: To lower the handlebar unscrew the 2 securing knobs sufficiently to allow it to be pivoted 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.



Storage for long periods: To ensure your mower is maintained in good working order it is important that the following procedure is adopted when the mower is stored for periods in excess of one month. Refer to the maintenance section and engine handbook 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. Pull the engine start - grip once to crank the engine. This will distribute the oil and help prevent engine corrosion.

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

Lubricate the mower.

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

Lower the handlebar, if desired.

Rest the mower deck on wooden blocks to remove the weight of the mower from its wheels / roller.

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

FAULT FINDING

PROBLEM	POSSIBLE FAULT	REMEDY
Engine will not start.	Fuel starvation.	Fill fuel tank.
	Incorrect / contaminated fuel.	Drain fuel tank and fill with correct fuel.
	Spark plug lead disconnected.	Connect spark plug lead.
	Throttle setting incorrect.	Set throttle to fast position.
	Faulty spark plug.	Clean and adjust gap or replace.
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 element blocked.	Replace air cleaner element.
	Incorrect / contaminated fuel.	Drain fuel tank and fill with correct fuel.
Engine vibrates excessively.	Mounting bolts loose.	Tighten bolts.
	Cutterblade screws loose.	Tighten screws.
	Cutterblade out of balance.	Balance cutterblade.
Cutterblade brake/clutch	Will not engage. Will not disengage.	See Hayter dealer. See Hayter dealer.

FAULT FINDING

Continued.

PROBLEM	POSSIBLE FAULT	REMEDY
Uneven cut.	Undulating ground contours. Cutterblade worn. Cutterblade out of balance. Wheels / Roller damaged.	Change direction of travel. Sharpen the cutterblade. Balance cutterblade. Inspect and replace as necessary.
Discharge chute blocks.	Grass is wet. Cut height too low. Grassbag full. Slow engine speed. No airflow through the grassbag.	Mow dry grass. Increase cut height. Empty grassbag. Increase engine speed. Clean the grassbag.
Mower is hard to push.	Cut height too low. Wheels / Roller damaged.	Increase cut height. Inspect and lubricate or replace as necessary.
Mower will not self propel.	Clutch out of adjustment. Drive belt damaged.	Adjust clutch lever. Replace drive belt.
Poor grass collection.	No airflow through the grassbag. Discharge chute blocked. Slow engine speed. Wet grass. Grassbag full.	Clean the grassbag. Remove blockage. Increase engine speed. Mow dry grass. Empty grassbag.

PARTS LIST

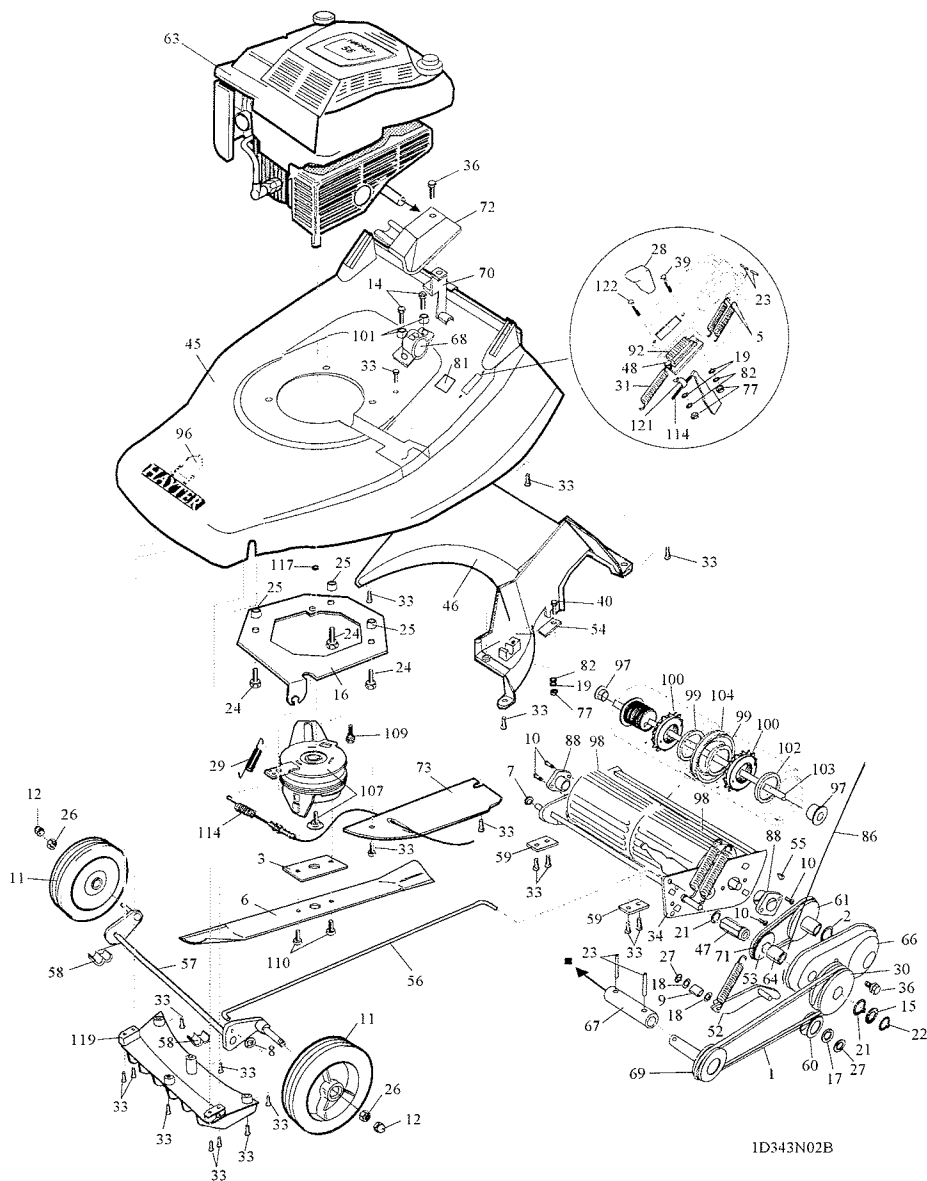
ITEM NO.	DESCRIPTION	PART NO.	QTY.
1	Belt	340049	1
2	5/8" Circlip	1428	1
3	Cutterblade Packer	419029W	1
4	3/16" Washer	09257	4
5	Spring	5421	2
6	Cutterblade	343007	1
7	5/8" Plain Washer	09286	1
8	5/16" Spring Clip	04020	1
9	Bush	4452	1
10	M6 x 12 Csk. Pozi Taptite Screw	09545	4
11	Wheel	5218	2
12	Hub Cap	219143	2
13	M6 Nut - Nylon Insert 'T' type	09544	3
14	M6 x 20 Hex. Washer Hd. Taptite Screw	09575	2
15	1/2" Plain Washer	02575	1
16	Support Plate Assy	343012W	1
17	5/16" Plain Washer	09266	1
18	1/2" Plain Washer	09280	2
19	M6 Plain Washer	09472	8
20	Handlebar Clamp	340028	2
21	3/4" Circlip	02708	2
22	1/2" Circlip	03096	1
23	3/16" x 3/4" Roll Pin	03997	4
24	3/8" UNC x 2" Taptite Screw	09591	3
25	Spacer	321034	3
26	1/2" UNF Nylon Insert Nut	4486	2
27	5/16" Starloc Washer	0201086	2
28	Height Adjuster Knob	330053	1
29	Spring	343011	1
30	Pulley	219111	1
31	Spring	1246	1
32	No. 8 x 1. 1/4" Pozi Pan Screw	09600	2
33	M6 x 16 Hex. Washer Hd. Taptite Screw	09365	18
34	Frame Rear Roller	340044	1
35	M8 x 40 Coach Bolt	09379	2
36	M6 x 12 Washer Hd. Taptite Screw	09546	2
37	M8 Nut Nylon Insert 'T' Type	09441	2
38	Rivet	09320	4
39	M6 x 20 Coach Bolt	09668	1
40	M6 x 30 Hex. Hd. Bolt	09547	1
41	Nut Cap Plastic M6	343025	2

PARTS LIST

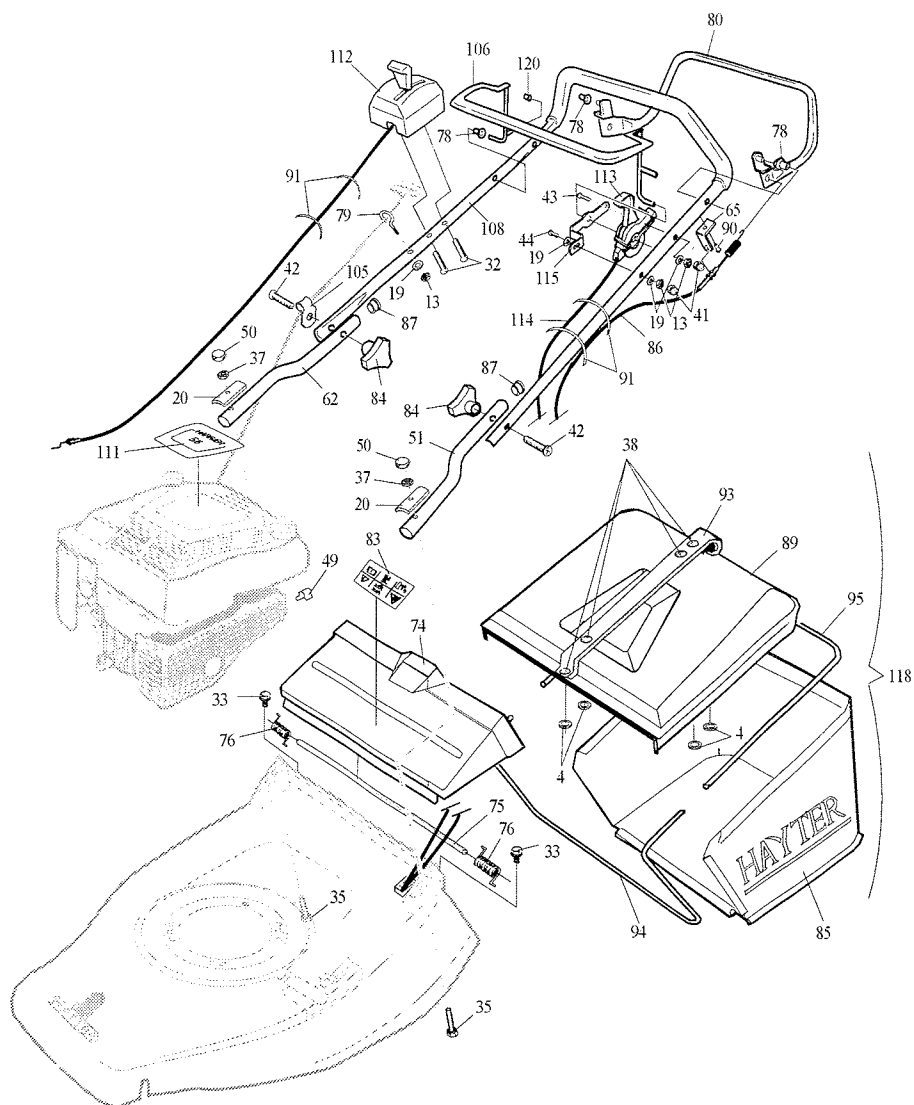
ITEM NO.	DESCRIPTION	PART NO.	QTY.
42	M8 x 45 Coach Bolt	226024	2
43	Screw Pan Hd M6 x 55	09384	1
44	Screw Pan Hd M6 x 35	09383	1
45	Mainframe Assembly	340205V	1
46	Throwplate	340011	1
47	Idler Sprocket Sleeve Assembly	219095	1
48	Ratchet Plate	340102	1
49	Cable Clip	219097	1
50	Nut Cap	234051	2
51	Lower Handlebar - Nearside	340103	1
52	Jockey Lever	219023	1
53	Sprocket - 10 Teeth	219106	1
54	Securing Plate	219028	1
55	Woodruff Key	5321	1
56	Connecting Rod	340014	1
57	Front Axle Assembly	340020	1
58	Bearing Moulding	219036	2
59	Securing Plate	219037	2
60	Jockey Pulley	219156	1
61	Sprocket - 17 Teeth	219051	1
62	Lower Handlebar - Offside	340104	1
63	Engine	343009	1
64	Spacer	219053	1
65	Clutch Cable Bracket Stop	239052	1
66	Transmission Cover	219055	1
67	Coupling	340109	1
68	Bearing Housing Moulding	219060	1
69	Pulley Assembly	340105	1
70	Belt Guide Bracket	219064	1
71	Chain	219054	1
72	Transmission Cover	340050	1
73	Underguard	343015	1
74	Rear Deflector	340022	1
75	Pivot Rod	340024	1
76	Deflector Spring	340052	2
77	M6 Plain Nut	09437	3
78	Bush Lever	226034	3
79	Rope Guide	305093	1
80	Clutch Lever	219090	1
81	Decal - Height of Cut	320006	1
82	M6 Spring Washer	09474	3

PARTS LIST

ITEM NO.	DESCRIPTION	PART NO.	QTY.
83	Decal - Caution	219189	1
84	Handwheel	226013	2
85	Grassbag Fabric	340071	1
86	Clutch Cable	340056	1
87	Tube Plug	300160	2
88	Roller Bearing Housing	219102	2
89	Grassbag Cover	340072	1
90	Avdel Rivet	09318	1
91	Cable Tie	3966	4
92	Brush Seal	340082	1
93	Grassbag Handle	340073	1
94	Grassbag Frame Assembly	340075	1
95	'U' Tube	340078	1
96	Decal - Hayter & Royal Warrant	219186	1
97	Oilite Bush - Roller	340129	2
98	Roller Assembly	340139	2
99	Spacer - Nylon	340149	2
100	Roller Free Wheel	340150	2
101	Bush	340154	2
102	Locknut	340163	1
103	Roller Shaft	340162	1
104	Shroud Freewheel	340168	1
105	Rope Guide	305127	1
106	Blade Stop Lever	343004W	1
107	Blade Brake Clutch	343008	1
108	Upper Handlebar	343003W	1
109	Screw Soc Shld M10 x 12 x 30	ZIS8L030S	1
110	M10 x 25 Soc. Hd Csk. Screw	09732	2
111	Decal - Engine (CODE 343N)	343017	1
112	Throttle Control & Cable	343005	1
113	Control BBC	419034	1
114	Cable - BBC	343010	1
115	Bracket - BBC Control	419033	1
116	Control - BBC Assy (Includes Items 113,114 & 115)	343006	1
117	Distance Piece	343013	1
118	Grassbag Assembly (Includes Items 4, 38, 85, 89, 93, 94 & 95)	340070	1
119	Front Fin Insert	340190	1
120	Ferrule Plastic	305115	1
121	Cable Clip - 10mm	70-01-109	1
122	M6 x 25 Coach Bolt	09735	1



1D343N02B



1D343N01C

