

**HARRIER**  
**41**  
**ELECTRIC**

---

**CODE**  
**309L . 311L**

**OWNER'S HANDBOOK**

(English Version)  
FROM SERIAL NO: 309L006731, 311L001413.  
ISSUE 26.09.00

**HANDBOOK: 309043 (REV.4.)**

## CERTIFICATE OF CONFORMITY

I, the undersigned M.A.WRIGHT, of ;

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

certify that the lawnmowers;

	CODE 309L	CODE 311L
1. Model No.	309L	311L
2. Category.	Electric	Electric
3. Make.	Hayter	Hayter
4. Type.	Rotary	Rotary
5. Motor - Manufacturer.	Nuova Ibmie 1.5kw	Nuova Ibmie 1.5kw
- Type.	CP1 2-132/HT2	CP1 2-132/HT2
- Speed of rotation during test.	2950 rpm	2950 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.	96 dB(A)	96 dB(A)
- Type of cutting device.	Cutterbar	Cutterbar
- Width of cutting device.	41 cm	41 cm
- Speed of rotation of the cutting device.	2950 rpm	2950 rpm

TESTED AT SUDBURY, SUFFOLK, ENGLAND. 16.12.92 16.12.92

Signed:



M.A. Wright  
( Technical Director ).

## EC DECLARATION OF CONFORMITY

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



Machine Type No. Code 309L Code 311L  
Models Harrier 41 Electric Harrier 41 Electric

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: EN292, EN836, EN50081 and EN50082.

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

Signed:



Date: 26.03.97

M.A. Wright  
( Technical Director ).

## VIBRATION INFORMATION

Lawnmower vibration information. RMS acceleration measured in 3 - axes at operator contact position on the handlebars. **CODE 309L = 1.1 ms<sup>-2</sup> CODE 311L = 1.1 ms<sup>-2</sup>**

<b>CONTENTS</b>	<b>Page No</b>
<b>INTRODUCTION.</b>	<b>1.2</b>
<b>WARRANTY.</b>	<b>1.3</b>
<b>SAFETY PRECAUTIONS.</b>	<b>1.4 - 1.7</b>
<b>SPECIFICATIONS.</b>	<b>1.8</b>
<b>ASSEMBLY INSTRUCTIONS.</b>	<b>1.9</b>
General assembly.	1.9
Assembling the mower for the first time.	1.10 - 1.11
<b>OPERATING THE MOWER.</b>	<b>1.12</b>
Electrical connection.	1.12
Before starting the mower.	1.12
To start the mower.	1.12
Stopping the mower.	1.12
Safe mowing practice.	1.13
Overload protection.	1.14
Height of cut.	1.14
Travel.	1.15
Turning the mower.	1.15
Mowing with grass collection.	1.16
Mowing without grass collection.	1.17
Heavy growth.	1.17
Transporting the mower.	1.17
Cutterbar operation.	1.18
Mowing and grass care tips.	1.18 - 1.19
<b>MAINTENANCE.</b>	<b>1.20</b>
Motor.	1.20
Switch control unit.	1.20
Grassbag.	1.20
Deck housing.	1.20
Securing nuts and bolts.	1.20
Lubrication.	1.21
Cutterbar.	1.21 - 1.22
Supply cable.	1.22
<b>PREPARING THE MOWER FOR STORAGE.</b>	<b>1.23</b>
<b>FAULT FINDING.</b>	<b>1.24 - 1.25</b>
<b>309L &amp; 311L PARTS LIST.</b>	<b>2.1 - 2.2</b>
<b>309L &amp; 311L LOWER MAINFRAME DIAGRAM.</b>	<b>2.3</b>
<b>309L &amp; 311L UPPER MAINFRAME DIAGRAM.</b>	<b>2.4</b>
<b>309L &amp; 311L ELECTRIC MOTOR DIAGRAM.</b>	<b>2.5</b>
<b>NOTES.</b>	<b>2.6</b>
<b>CUSTOMER INFORMATION.</b>	<b>2.7</b>

**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:** This 'Owners Handbook' should be regarded as part of the machine as it gives essential information regarding machine safety, operation, maintenance and specifications. 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 your **Hayter** authorised dealer who will be pleased to give you assistance.

**IMPORTANT:** This machine 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 machine 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 here in 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.

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. Your dealer will carry out a pre-delivery inspection to ensure that there has been no transit damage prior to installation. **Please allow your dealer to familiarise you with the controls and safety features of the machine during installation.**

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 three years from the date of purchase. The manufacturers of the engine and battery pack system (where applicable) furnish their own warranty and services are provided through their authorised network (Refer to "Engine/Battery Pack 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, cutterbars, 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.

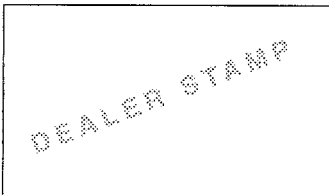
A warranty period of 90 days applies to machines used for commercial purposes.

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.

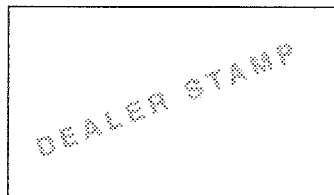
This limited warranty gives you specific legal rights and is in addition to any statutory rights to which you may be entitled and your statutory rights are not affected by this warranty. If you need additional information concerning this written warranty, or assistance in obtaining services, please write 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



2nd Year Service Record



Date.....

Date.....

Signed.....

Signed.....

**SAFETY PRECAUTIONS**

**THIS SYMBOL MEANS BE ALERT! YOUR SAFETY IS INVOLVED. WHEN YOU SEE THIS SYMBOL BE ALERT TO THE POSSIBILITY OF INJURY. CAREFULLY READ THE MESSAGE THAT FOLLOWS AND INFORM OTHERS. EXERCISE GREAT CARE AND FOLLOW THE ADVICE GIVEN TO AVOID POTENTIALLY HAZARDOUS SITUATIONS.**

**The Harrier 41 Electric Mower 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:**

It is recommended that a high sensitivity Residual Current - Operated Circuit - Breaker ( RCCB ) with a trip current of not more than 30mA is installed at the mains power socket. This will provide the user with additional protection against electric shock. The fuse installed in the plug only provides protection for the electrical equipment and will not safeguard against electrocution. Always check the RCCB before using the mower.



**WARNING:** Regularly inspect the supply cable for signs of damage or ageing. Replace immediately if defective.



Always wear substantial footwear and long trousers while mowing. Do not operate the equipment when barefoot or wearing sandals.




Thoroughly inspect the area where the mower is to be used and remove all stones, sticks, wires, bones and other foreign objects.



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

**SAFETY PRECAUTIONS**


Continued.


-  Damaged cutterbars and loose fixing bolts are major hazards. Before use, visually inspect the cutting mechanism to ensure that it is in good condition. A damaged cutterbar must be replaced immediately with a genuine **Hayter** replacement part. Cutterbars which are slightly worn can be resharpened. Ensure that both cutting edges are resharpened equally to maintain balance. An unbalanced cutterbar may cause serious damage to your machine. Refer to "Maintenance."


**Operation:**


-  **WARNING: SWITCH OFF AND REMOVE PLUG FROM MAINS.**


- Before clearing blockages or unclogging the discharge chute.
- Before cleaning, checking or working on the mower.
- Whenever you leave the mower.
- After striking a foreign object. Inspect the mower for damage and make repairs before re-starting and operating the mower.
- If the mower starts to vibrate abnormally (check immediately).
- If the supply cable is entangled.


-  **WARNING: THE CUTTERBAR CAN CONTINUE TO ROTATE AFTER THE MACHINE IS SWITCHED OFF.**


-  Keep the supply cable clear of the cutterbar at all times. Take care not to mow across the supply cable. Immediately disconnect the cable from the mains supply if this occurs and check for damage. Do not use a defective supply cable.


-  Mow only in the daylight or in 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.

**SAFETY PRECAUTIONS**

Continued.

-  Switch off 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.
-  Start the mower carefully, with feet well away from the cutterbar.
-  Do not tilt the front of the mower more than is absolutely necessary when starting. Never lift the rear of the mower.
-  Do not put hands or feet near or under rotating parts.
-  Never pick up or carry a mower while it is running or connected to the mains supply.
-  Do not lift the rear deflector plate whilst the mower is in operation, particularly when using without a grassbag.

**Maintenance and storage:**

-  Keep all nuts, bolts and screws tight to ensure that the mower is in a safe working condition.
-  Carefully examine the supply cable for signs of damage or ageing. Replace immediately if defective.
-  Check the grassbag frequently for wear or deterioration and replace if necessary.
-  Replace worn or damaged parts for safety.



**DECALS**

**WARNING DECAL: Part No. 309028 (309L only)**



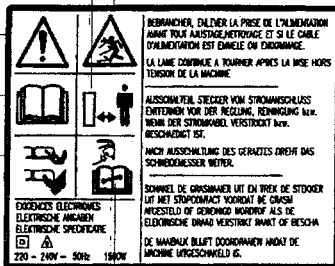
**WARNING DECAL: Part No. 311012 (311L only)**

**DANGER OF BEING HIT BY THROWN OBJECTS.  
KEEP BYSTANDERS AT A SAFE DISTANCE FROM THE MACHINE.**

**WARNING - CAUTION RISK OF DANGER - SAFETY ALERT:**

**CAREFULLY READ THE OWNER'S HANDBOOK BEFORE USING THE MACHINE.**

**DANGER OF SEVERING TOES OR FINGERS IN CUTTING MECHANISM.**



**SWITCH OFF AND REMOVE PLUG FROM MAINS BEFORE PERFORMING MAINTENANCE OR REPAIR WORK.**

**CUT HEIGHT ADJUSTMENT DECAL :  
Part No. 320006**



**CUT HEIGHT ADJUSTMENT DECAL :  
Part No. 305113**



**SWITCH DECAL :**



**CAUTION DECAL :  
Part No. 331045**



## SPECIFICATIONS

MODELS	CODE 309L Electric	CODE 311L Electric
Supply	220 - 240V 50Hz	
Rated input	1.5 kW	
Fuse rating	13A	
Weight	25.5 Kg ( 56 lbs )	
Cutterbar speed	2950 rpm	
Cutting width	410 mm ( 16" )	
Cutting height	12 - 65 mm ( 0.5 - 2.6 inch )	
Operator ear noise level	LpA 80 dB ( A )	
Sound power level	Lwa 96 dB ( A )	
Overall dimensions	1,270 x 451 x 1,041mm ( 50 x 17.75 x 41 inch )	

**Supply cable:** ( For European specification - 311L only )

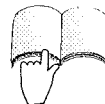
**Cable** - HO5RNF, 3 x 1 sq. mm. **Appliance coupler** - VDE / CEE7. **Mains plug** - Fused in accordance with the above specifications and compliant with the local standards in the country of use. This item is not included with code 311L mowers due to variation in European mains plug specifications and should be supplied separately by your Hayter Dealer.

## ASSEMBLY INSTRUCTIONS

## SAFETY NOTICE

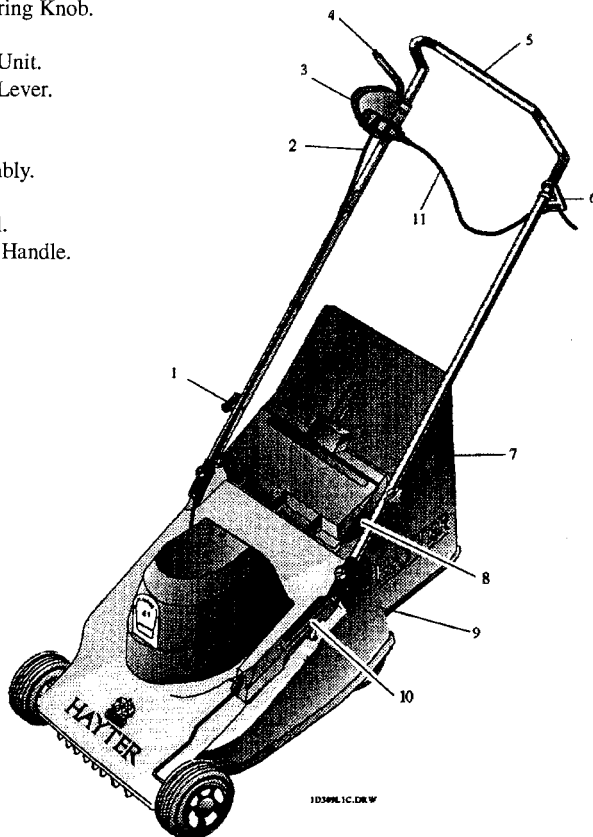


Before using the mower, read the owner's handbook carefully.  
Pay particular attention to the safety precautions.



## GENERAL ASSEMBLY

1. Handlebar Securing Knob.
2. Switch Cable.
3. Switch Control Unit.
4. Switch Control Lever.
5. Handlebar.
6. Cable Cleat.
7. Grassbag Assembly.
8. Rear Deflector.
9. Serial No. Decal.
10. Height Adjuster Handle.
11. Supply Cable.



103996.1.C.DRW

**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.

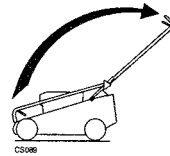
DELIVERY CHECKLIST

Description	Quantity
Grassbag	1
Owner's Handbook	1
Supply Cable - (309L only)	1

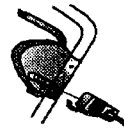
**Assemble the handlebar:** Unscrew the knobs securing the handlebar sufficiently to allow it to be pivoted and unfold the handlebar to the operating position. Tighten the two knobs to secure the handlebar. Ensure that the knobs are assembled to the outside of the handlebars.



**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.



**Supply Cable:** Unpack the supply cable and identify the female socket end which is to be attached to the mower. Fold back the hinged protector cap and plug into the handlebar switch control unit. The hinged cap should snap into position behind the control unit when fully engaged.



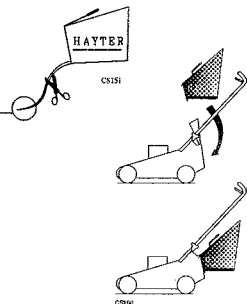
Route the supply cable loosely across to the cable cleat on the left side of the handlebar. Make a loop in the supply cable and secure to the cable cleat.



**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.

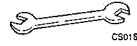


Raise the rear deflector and lower the grassbag through the handlebar aperture to connect onto the upper mounting points. Lower the grassbag to rest against the rear of the mower. Finally lower the rear deflector to rest against the top of the grassbag.

**ASSEMBLING THE MOWER FOR THE FIRST TIME**

Continued.

Check that all fasteners are secure.



**ELECTRICAL CONNECTION**

**Electrical connection:** Position the mower on the grass area to be cut. Carefully uncoil the supply cable clear of the mower and take the plug end connection to the mains socket outlet. Ensure that the mains socket is switched 'OFF' before locating the RCCB unit - Refer to "Safety Precautions" - Preparation. Switch 'ON' and check the operation of the RCCB unit. Switch 'OFF' before installing the mower supply cable plug and finally switch

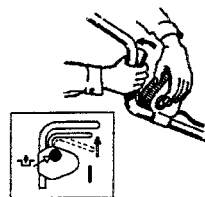
**BEFORE STARTING THE MOWER**

**! WARNING: PREVENT ACCIDENTS - The cutterbar rotates when the motor is running.**

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

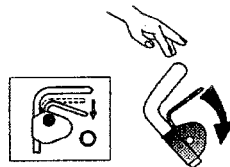
**TO START THE MOWER**

**Operate the switch control lever:** Locate the switch control lever mounted on the handlebar and ensure that your feet are clear of the mower deck. Depress the safety button with the left hand and pull the lever towards the handlebar with the right hand. The motor will now start. The safety button will remain depressed until the lever is released. **Failure to depress the safety button before operating the lever can cause permanent damage to the switch control unit.**

**STOPPING THE MOWER**

**Stopping the mower:** Releasing the motor switch control lever will stop the motor.

**! WARNING: AVOID ACCIDENTS - The cutterbar may continue to rotate after the mower is switched off.**



**SAFE MOWING PRACTICE**

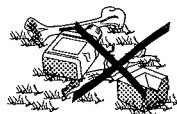
**! WARNING: PREVENT ACCIDENTS** -Take extreme care to avoid mowing across the supply cable. If this should occur, switch off immediately and disconnect the plug from the power supply. Carefully examine the cable for cuts and damage. A defective cable must be replaced before the mower is used again. Always be aware of the location of the supply cable in relationship to the mower and the grass area. Do not allow the cable to become hidden in the uncut grass. Keep the cable over the cut area at all times. A cable which is out of sight is out of mind and this could lead to a hazardous situation. Plan a 'cutting scheme' which works away from the power supply point and ensures that the cable is trailed out over the cut area. Work up and down the lawn in rows. Turn the machine round at the end of the row and step across the cable so that the cable is trailed along in the cut area on the return run.

When working around flower beds, prevent the cable from trailing across the cultivated area by positioning a stake at the corner of the bed. Do not allow the cable to be pulled around sharp obstructions. Stop mowing immediately if cable resistance is felt and remove the obstruction. Do not allow the cable to become entangled.

**! WARNING: PREVENT ACCIDENTS** - Switch off, remove plug from mains before adjusting, cleaning or if the cable is entangled.

**SAFETY NOTICE**

**! WARNING: PREVENT ACCIDENTS** - 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 cutterbar could become dangerous projectiles. Inspect the area for hidden obstructions which when contacted by the cutterbar could risk health and safety. Remember the location of these obstructions and ensure that you mow around them.



CS031

**OVERLOAD PROTECTION**

Do not let the motor labour or slow down through being overloaded in work. When this situation occurs, raise the front of the mower slightly by bearing down on the handlebar, allow the motor to reach maximum speed and proceed to mow at a slower pace. Alternatively readjust to a higher cut position. If the motor continues to labour, switch off and remove the plug from the mains supply. Remove and empty the grassbag. Examine the discharge chute and remove any blockage. Turn the machine on its side and clear any obstruction from the cutterbar and the underside of the mower deck. Place the machine upright and replace the grassbag. Readjust to a higher cut position if necessary. Restart the mower and proceed to mow at a pace which does not overload the mower.

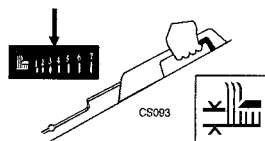
**IMPORTANT: PREVENT DAMAGE - DO NOT continue to operate the motor in an overloaded condition. If this does occur, stop mowing and allow the motor to run at maximum speed for one minute. This will allow the motor to cool down to its normal working temperature.**

**HEIGHT OF CUT**

**To adjust the height of cut:** Hold the trigger against the handle and raise or lower the mower using the handle to achieve the desired cut height. Release the trigger to secure the mower at the required position.

There are seven height of cut positions. The setting is indicated by the position of the connecting rod relative to the height of cut indicator.

Always select a height of cut to suit 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.





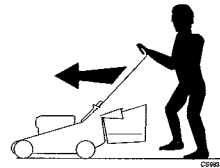
**TRAVEL**

**Forward travel:** Hold and push against the handlebar with both hands to move the mower forwards.

**Reverse travel:** 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 motor before walking backwards with the mower.**

**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 motor is running.**

### MOWING WITH GRASS COLLECTION

The grassbag is designed to collect grass clippings.

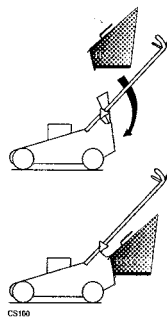
To achieve best grass collection performance, mow in dry operating conditions.

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

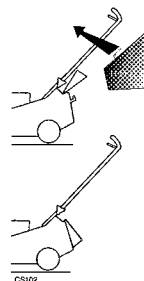


**WARNING: PREVENT ACCIDENTS - ALWAYS check the condition of the grassbag for signs of damage. Replace a damaged grassbag immediately. DO NOT operate the mower with a damaged grassbag. ALWAYS stop the mower, switch off and remove from mains before attempting to remove a grass blockage.**

**Grassbag attachment:** Raise the rear deflector and lower the grassbag through the handlebar aperture to connect onto the upper 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.



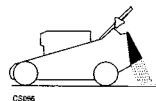
**Grassbag removal:** Raise the rear deflector and lift the grassbag away from the mower through the handlebar aperture. Finally lower the rear deflector to rest against the rear of the mower.



**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 overloading of the electric motor.

**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 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 motor switched off.**

**CUTTERBAR OPERATION**

The cutterbar rotates at the same speed as the motor. The cutterbar will stop within five seconds of the motor being switched off.



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



**WARNING: PREVENT ACCIDENTS - ALWAYS** stop the motor when a hidden obstruction or excessive vibration is encountered. Stop the motor, switch off, remove plug from mains and examine the cutting mechanism. ALWAYS replace a damaged cutterbar - refer to "Maintenance".

**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 cutterbar. A blunt cutterbar 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.

**MOWING AND GRASS CARE TIPS**

Continued.

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.

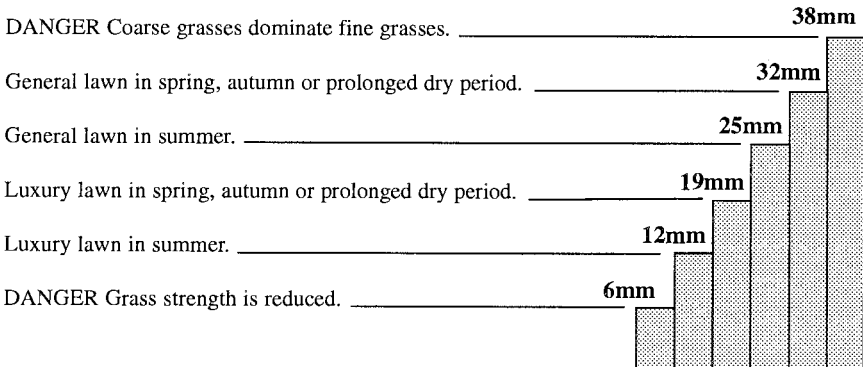
As a general rule the grass clippings should be removed each time you mow. If weather conditions are dry and hot and the grass is weed free, leave the clippings on the lawn to help maintain ground moisture.

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.


**PREVENT GRASS DAMAGE - DO NOT remove more than one third of the grass height in one cut.**

**Recommended height of cut:**



**MAINTENANCE****SAFETY NOTICE**

 **WARNING: PREVENT ACCIDENTS - ALWAYS SWITCH OFF AND REMOVE PLUG FROM MAINS BEFORE ATTEMPTING ANY MAINTENANCE PROCEDURES.**

 **WARNING: DO NOT USE WATER WHEN CLEANING.**

**MOTOR**


**Motor:** The motor is maintenance free.

**SWITCH CONTROL UNIT**

**Switch control unit :** The switch control unit is maintenance free.

**GRASSBAG**

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

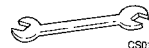
 **WARNING: PREVENT ACCIDENTS - ALWAYS replace a damaged grassbag immediately.**

**DECK HOUSING**

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

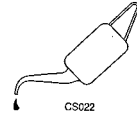
**SECURING NUTS AND BOLTS**

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.

**CUTTERBAR**

**!** **WARNING: PREVENT ACCIDENTS -** The cutterbar has sharp edges. **ALWAYS** wear strong gloves to protect your hands when working on the cutterbar. **DO NOT** operate tools towards the cutting edges to avoid the risk of injury should the tool slip. **ALWAYS** use genuine Hayter replacement parts.

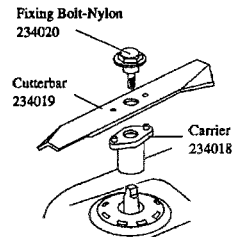
The condition of the cutterbar and its mounting arrangement should be checked regularly for signs of wear or damage. Ensure that the cutterbar is not bent or cracked.

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

Regularly check that the bolt securing the cutterbar is tightened to the specified torque of 27Nm ( 20 lbs. ft. ).

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

**To replace the cutterbar:** Turn the machine on its side. Use a 36mm A / F spanner to loosen the central fixing bolt by turning anti-clockwise. Use a strong glove or a thick pad to protect the hand while holding the cutterbar to prevent it turning. The carrier may slide off the shaft after removal of the cutterbar. This should be cleaned and replaced. Ensure that the flats on the shaft locate correctly with the flats on the carrier. Ensure that the new cutterbar is the correct way up before locating it onto the two carrier pins. Replace the central securing bolt and tighten to 27Nm ( 20 lbs. ft ) and again use hand protection to steady the end of the cutterbar. Do not pull or push the spanner towards the cutting edge of the cutterbar as a serious injury could result if the spanner slips.

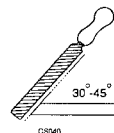


**CUTTERBAR**

Continued.

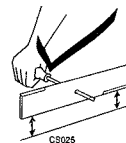
**How to sharpen and balance the cutterbar:** A slightly worn cutterbar may be re-sharpened. All cutting edges must be sharpened equally to ensure balance. Sharpen the cutterbar every 25 mowing hours or more frequently if conditions require.

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

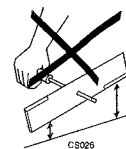


**!** DO NOT use a damaged or excessively worn cutterbar.

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



Ensure that the cutterbar is balanced. Use a screw driver with a round shaft to support the cutterbar through its centre hole. Hold the cutterbar horizontal and then release. A balanced cutterbar will remain horizontal. If the cutterbar is not balanced the heavy end will rotate downwards. Sharpen the heavy end until the cutterbar is correctly balanced.

**SUPPLY CABLE**

**Supply cable:** Check the condition of the supply cable for damage or ageing. Replace immediately if defective.



**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 cables do not become snagged at the pivot point.

**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 as necessary.

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

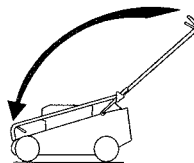
Lubricate the mower.

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

Lower the handlebar if desired.

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

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



**FAULT FINDING**

PROBLEM	POSSIBLE FAULT	REMEDY
Motor fails to start.	<p>Mains supply socket dead.</p> <p>RCCB tripped.</p> <p>Plug pulled out of mains socket.</p> <p>Fuse failure.</p> <p>Supply cable damaged.</p> <p>Cutterbar obstructed.</p> <p>Cable socket pulled out of switch control unit.</p>	<p>Test socket by plugging in another appliance.</p> <p>Remove mower plug and check RCCB action. Check the supply cable for any obvious signs of damage and replace immediately if defective. If no obvious faults are found a serious fault is indicated. Contact your Hayter Dealer.</p> <p>Re-engage plug.</p> <p>Fit a new 13 amp fuse.</p> <p>Disconnect from the mains and check the supply cable for any obvious signs of damage. Replace immediately if defective.</p> <p>Disconnect from the mains and remove any obstructions.</p> <p>Re-engage cable socket.</p>
Motor will not stop.	Faulty switch control unit.	Ensure switch lever has returned to the ' <b>OFF</b> ' position. Disconnect from the mains and contact your Hayter Dealer.
Cutterbar runs on excessively after switching ' <b>OFF</b> '.	Faulty brake unit.	Contact your Hayter Dealer.

**FAULT FINDING**

Continued.

PROBLEM	POSSIBLE FAULT	REMEDY
Motor vibrates excessively.	Mounting bolts loose. Cutterbar bolt loose. Cutterbar out of balance.	Tighten bolts. Tighten bolt. Balance cutterbar.
Uneven cut	Undulating ground contours. Cutterbar worn. Cutterbar out of balance. Wheels / Roller damaged.	Change direction of travel. Sharpen the cutterbar. Balance cutterbar. Inspect and replace as necessary.
Discharge chute blocks.	Grass is wet. Cut height too low. Grassbag full. No airflow through the grassbag.	Mow dry grass. Increase cut height. Empty grassbag. 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.
Poor grass collection.	No airflow through the grassbag. Discharge chute blocked. Wet grass. Grassbag full.	Clean the grassbag. Remove blockage. Mow dry grass. Empty grassbag.

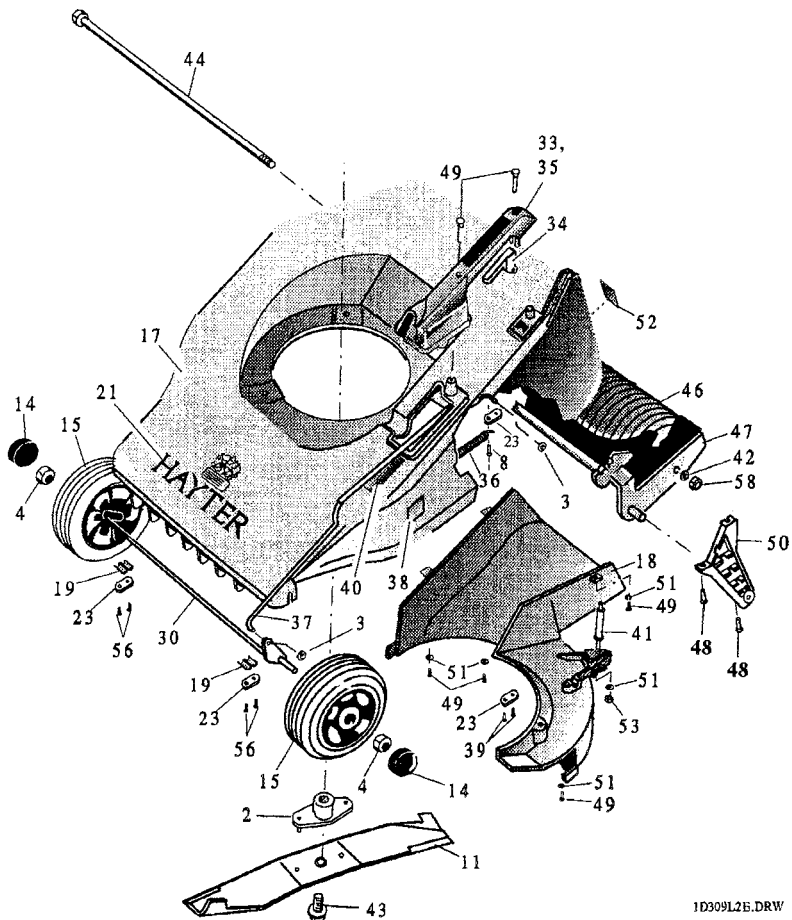
## PARTS LIST

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			309L	311L
1	Cable Tie	3966	3	3
2	Carrier	234018	1	1
3	Gripfix	02385	2	2
4	Wheel Nut	4486	2	2
5	M8 Washer	09475	5	5
6	M8 x 40 Hex. Hd. Bolt	09681	3	3
7	KA40 x 25 Ejoyt Screw	09719	2	2
8	M6 x 20 Taptite Screw	09575	3	3
9	M8 Nylon Ins. "T" - Type Nut	09441	5	5
10	M8 x 45 Coachbolt	09375	2	2
11	Cutterbar	234019	1	1
12	Motor 1.5Kw (includes item 75)	309011	1	1
13	Switch	309026	1	0
	Switch	311010	0	1
14	Hub Cap	219143	2	2
15	6" Wheel	302016	2	2
16	Handwheel	226013	2	2
17	Deck	305101V	1	1
18	Throwplate	300124	1	1
19	Axle Bush	305108	2	2
20	Ferrule - Plastic Dia. 8.	305115	2	2
21	Decal ( Hayter - Warrant )	300157	1	1
22	Decal ( Warning )	309028	1	0
	Decal ( Warning )	311012	0	1
23	Securing Plate	300039	4	4
24	M8 x 45 Handlebar Bolt	226024	2	2
25	Grassbag Frame	305105W	1	1
26	Deflector	305102	1	1
27	Pin 6.35 x 295	305103	1	1
28	Deflector Spring R / H	305111	1	1
29	Deflector Spring L / H	305110	1	1
30	Front Axle Assembly	300111	1	1
31	Handlebar Upper	309036	1	1
32	Grassbag Fabric	305104	1	1
33	Height Adjuster Handle	305112	1	1
34	Trigger	300066	1	1
35	Trigger Spring	300067	1	1
36	Compensating Spring	300070	1	1
37	Connecting Rod	305109	1	1
38	Decal ( Hand & Foot )	331045	1	1
39	6mm x 16 Pozidrive Screw	09634	2	2
40	Decal ( Height of cut positions )	305113	1	1

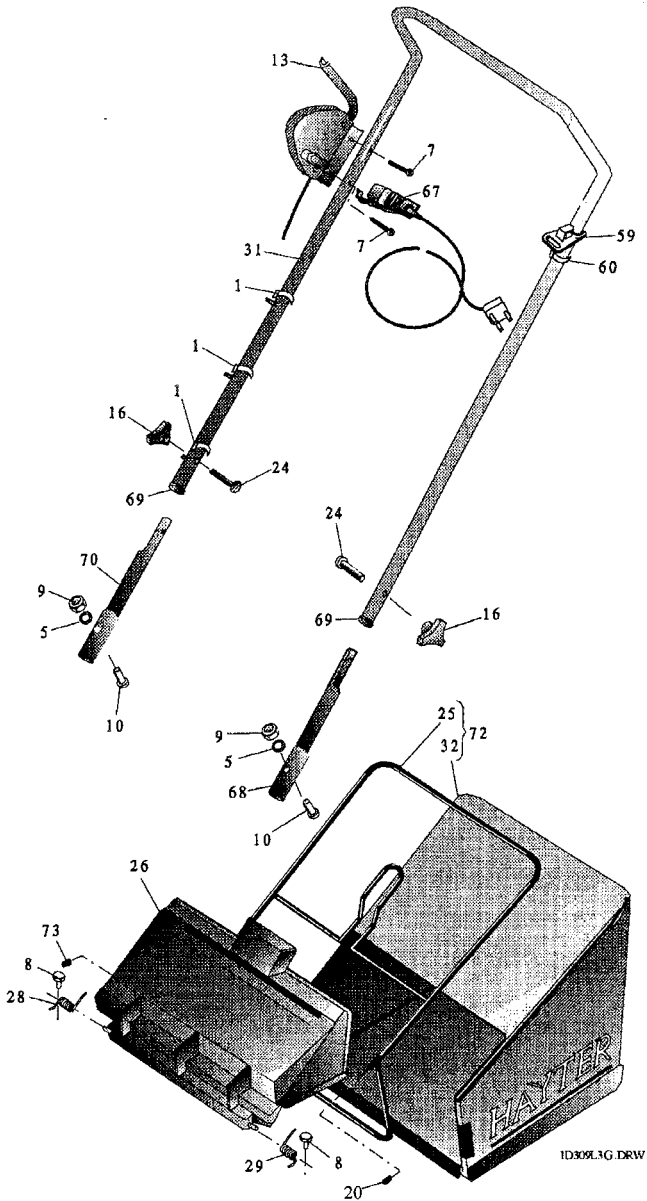
## PARTS LIST

Continued.

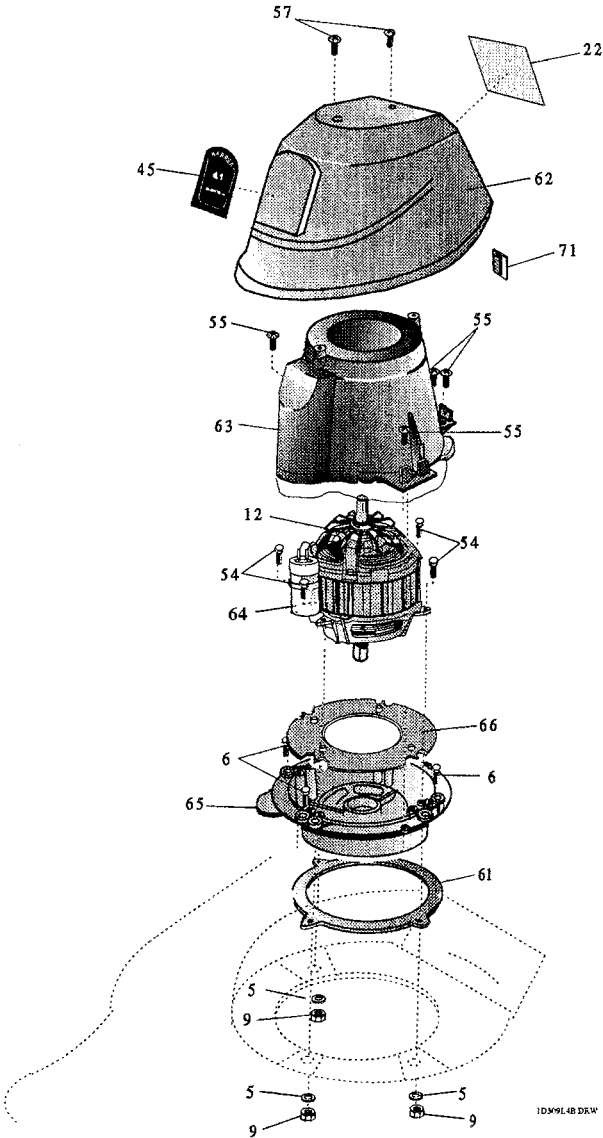
ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			309L	311L
41	Pillar	300137	1	1
42	3/8" Washer	09271	2	2
43	Fixing Bolt - Nylon	234020	1	1
44	Axle Bolt	308021	1	1
45	Decal ( Harrier 41 Electric )	309040	1	1
46	Roller - Black	201007	2	2
47	Roller Frame	308050W	1	1
48	M6 x 16 Hex. Washer hd. Screw.	09365	2	2
49	M6 x 16 Screw	09596	6	6
50	Axle Support	305130	1	1
51	M6 Plain Washer	09472	6	6
52	Decal ( Serial Number )	N / A	1	1
53	M6 Nyl. Ins. "T" type Nut	09544	1	1
54	No. 14 x 1.1/4" Self Tap Screw	09670	4	4
55	No. 10 x 1.1/2" Self Tap Screw	09669	4	4
56	M6 x 12 Screw	09546	4	4
57	No. 8 x 1" Plastite Screw	09528	2	2
58	3/8" UNF Nut	09216	1	1
59	Cleat	234014	1	1
60	Hose Clip - Black	234029	1	1
61	Base Plate Motor	309019	1	1
62	Motor Cover Top	309036	1	1
63	Motor Cover Mk2	309046	1	1
64	Capacitor	309039	1	1
65	Motor Flange	309024	1	1
66	Motor Screen	309025	1	1
67	Coupler & Cable Assembly	309027	1	0
68	Lower Handlebar N / S - ( Includes Insulator )	309034	1	1
69	Tube Plug	320048	2	2
70	Lower Handlebar O / S - ( Includes Insulator )	309033	1	1
71	Cable Clip	70-09-109	1	1
72	Grassbag Assembly ( Includes Items 25 & 32 )	305118	1	1



1D309L2E.DRW



ID:309L3G.DRW







**Machine Serial Number :**

.....

**Engine Serial Number :**

.....