



HAYTER
MAKERS OF THE FINEST MOWERS

Harrier 41 PRO FS
Code 379A

OWNER'S HANDBOOK



Original Version (EN)
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From Serial Number: 402186669 and Up
Part number: 134-0113 Rev C

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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.

This Owner's Handbook should be regarded as part of the mower as it gives essential information regarding safety, operation, maintenance and specifications.

If you misplace your Owner's Handbook, contact your local Hayter authorised dealer for a replacement. Alternatively, visit www.hayter.co.uk/handbooks to download an electronic version.

For engine details related to your product, please refer to the engine handbook provided.

To ensure maximum safety, best performance, and to gain knowledge of the mower, it is essential that you and any other operator read and understand the contents of this handbook before the engine is started. If you are unsure of any procedure detailed in this Handbook then please contact your local Hayter dealer for assistance.

Pay particular attention to the safety alert symbol which means Caution, Warning, or Danger. Read and understand the instruction as it relates to safety.

Improper maintenance or use of this mower can result in injury.

To reduce the potential for injury, comply with these safety instructions. 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.

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

Hayter Limited have designed and tested this machine for reasonably safe service; however, failure to comply with the instructions in this handbook may result in personal injury. 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.

Hayter Limited reserves the right to amend product specifications without prior notification.

GENERAL SAFETY

This machine has been designed in accordance with EN ISO 5395:2013.

This product is capable of amputating hands and feet and of throwing objects. Always follow all safety instructions to avoid serious personal injury.

Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

Read and understand the contents of this Operator's Manual before starting the engine.

Do not put your hands or feet near moving components of the machine.

Do not operate the machine without all guards and other safety protective devices in place and working on the machine.

Keep clear of any discharge opening. Keep bystanders a safe distance from the machine.

Keep children out of the operating area. Never allow children to operate the machine.

Stop the machine and shut off the engine before servicing, fuelling, or unclogging the machine.

Improperly using or maintaining this machine can result in injury.

To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety-alert symbol, which means Caution, Warning, or Danger - personal safety instruction.

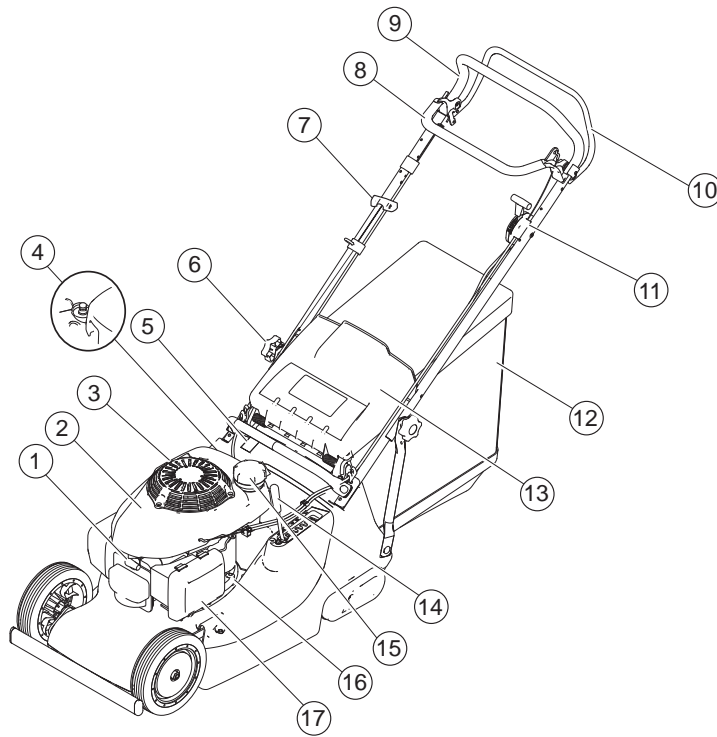
Failure to comply with these instructions may result in personal injury or death.

You can find additional safety information where needed throughout this manual.

For a full range of products and to locate your nearest authorised sales stockist, service or parts dealer please visit our website at www.hayter.co.uk

PRODUCT OVERVIEW

PRODUCT SPECIFICATION



- | | |
|--------------------------|-------------------------------|
| 1. Spark Plug and Lead | 10. Ground Drive Clutch Lever |
| 2. Engine Cover | 11. Engine Speed Control |
| 3. Oil Fill and Dipstick | 12. Grassbag |
| 4. Easy-Wash Port | 13. Rear Deflector |
| 5. Serial Number Label | 14. Fuel Cap |
| 6. Handle Securing Knob | 15. Height of Cut Lever |
| 7. Engine Start Cord | 16. Fuel Shutoff Valve |
| 8. Engine Stop Lever | 17. Air Filter |
| 9. Handle | |

Note: Item 11 should only be operated whilst the engine is running or the cable will be damaged.

Code	379A
Model	Harrier 41 PRO AD Petrol Rotary Mower
Weight	42 kg
Length	1440 mm
Width	485 mm
Height	1040 mm
Width of Cut	410 mm
Height of Cut	13 - 60 mm
Cutterblade Speed	2850 rpm (± 100 rpm)
Engine	Honda
Engine Type	GCV160
Engine Power Rating (Net)	2.8 kW
Fuel Type*	Unleaded fuel
Fuel Capacity	0.93 litre
Oil Type	SAE 30 engine oil
Oil Sump Capacity	0.50 litres

* A minimum of 87 octane / 87 AKI (91 RON).

* Fuel with up to 10% ethanol is acceptable.

* Do not use unapproved fuels, such as E15 and E85

SAFETY & INSTRUCTIONAL DECALS

WARNING: Improper maintenance, use of non-conforming spare parts, or the removal or modification of the Safety Decals may cause death or serious injury.


Please ensure all safety decals are secured on the mower before using the product.

Safety decals and instructions are easily visible to the operator and are located near any area of potential danger.

If any of the decals are missing or not secure, do not use the mower, contact your local Hayter authorised dealer for replacements.

Description: Engine stop


Part Number: Moulded onto engine stop lever



Description: Engine speed control

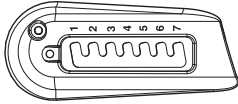
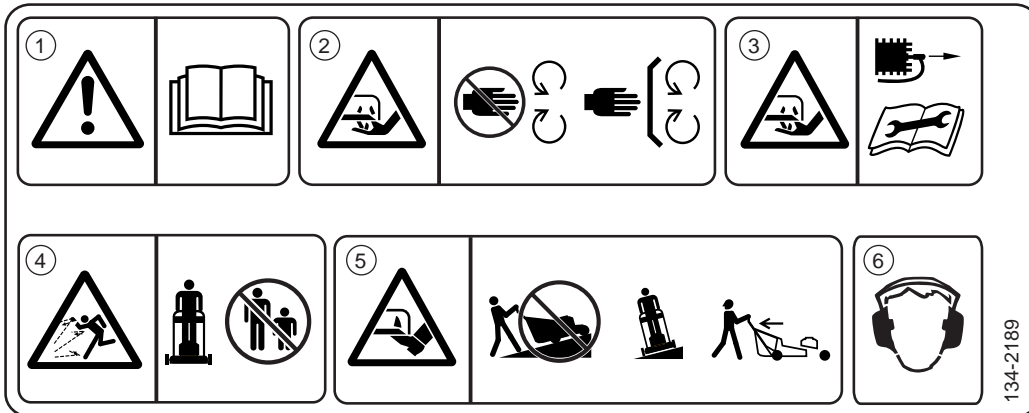
Part Number: Printed on control

Choke Fast Slow



Description: Height of Cut

Part Number: HOC positions 1-7 moulded into top cover

134-2189

1. WARNING - Read Operator's Manual
2. Cutting/dismemberment hazard of hand, mower blade - stay away from moving parts; keep all guards and shields in place.
3. Cutting/dismemberment hazard of hand, mower blade - disconnect the spark plug lead and read the instructions before servicing or performing maintenance.
4. Thrown object hazard - keep bystanders a safe distance from the machine; stop the engine before leaving the operating position; pick up any debris before mowing.
5. Cutting/dismemberment hazard of foot, mower blade - do not operate up and down slopes; operate side to side on slopes; look behind you when backing up.
6. WARNING - Wear hearing protection.

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.

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. Local regulations can restrict the age of the operator.

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.

All operators and mechanics should be trained. The owner is responsible for training users. Do not operate the machine while ill, tired or under the influence of alcohol or drugs.

Preparation

Whilst mowing, always wear substantial slip resistant footwear and long trousers. Tie back long hair and do not wear jewellery or loose clothing.

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

WARNING: Fuel is highly flammable and highly explosive. A fire or explosion from fuel can burn you and others, and can damage property.

Fill the fuel tank outdoors, in an open area, when the engine is cold. Wipe up any fuel spills.

Do not handle fuel when smoking or around an open flame or sparks.

Store fuel in an approved container and keep it out of the reach of children.

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 tamper with or disable the mower safety systems, sealed adjusters or other features.

Before use, ensure that all starting interlocks and operator presence controls are properly functioning. Refer to Operating the Mower.

Do not alter or tamper with the engine speed control.

Adjusting the cutting height may bring you into contact with the moving cutter blade, causing serious injury.

- Shut off the engine and wait for all moving parts to stop.
- Do not put your fingers under the housing when adjusting the cutting height.

Operation

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 machine on wet grass.

Always be sure of your footing on slopes.

Walk, never run.

Do not operate the mower near drop-offs, ditches or embankments.

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

Use extreme care when approaching blind corners, shrubs, trees, or other objects that may block your view.

Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could cause a slip-and-fall accident.

This machine contains spring loaded assemblies which could cause a hazard when disassembled and re-assembled, this maintenance should only be carried out by a Hayter authorised dealer.

If the machine has to be tilted for transportation when crossing surfaces other than grass, and when transporting the machine to and from the area to be mowed, stop the blades by releasing the engine stop lever and ensure that the blades have stopped before tilting the mower.

SAFETY PRECAUTIONS

Operation continued

Never operate the machine with defective guards, or without safety devices, for example deflectors and/or grass bag in place.

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

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

Do not tilt the mower when starting the engine.

Do not start the engine if standing in front of the discharge chute.

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

Never pick up, carry the mower or lift the rear deflector whilst the engine is running.

If the engine has been running the silencer and exhaust will be hot and can severely burn you. Keep away from the hot mower.

THE CUTTERBLADE CAN CONTINUE TO ROTATE AFTER THE MACHINE IS SWITCHED OFF.

Stop the engine and disconnect the spark plug lead:

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

The cutter blade is sharp, contacting the cutter blade can result in serious personal injury. Shut off the engine and wait for all moving parts to stop before leaving the operating position.

When you release the engine stop lever, the engine should shut off and the cutter blade should stop within 3 seconds. If not, stop using your machine immediately and contact an authorized service dealer.

Stop the engine:

- Whenever you leave the mower;
- Before refuelling.

Take care when loading or unloading the mower into a trailer or truck. Tie the mower down securely using straps, chains, cable or ropes. Both the front and rear straps should be directed down and outward from the mower.

Lightning can cause severe injury or death. If lightning is seen in the area, do not operate the mower; seek shelter.

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.

Inspect the exhaust periodically and replace if worn or leaking.

Check the rear deflector and grassbag frequently for wear or deterioration.

Replace worn or damaged parts for safety.

Wear strong work gloves when removing and reassembling the cutterblade.

Never store the mower with fuel 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 and the surrounding deck area free of grass, leaves or excessive grease.

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

Hauling

Use care when loading or unloading the machine. Secure the machine to prevent it from moving.

Spare Parts

Below is a list of parts that can affect the Health & Safety of the Operator:

- Cutterblade
- Grassbag
- Rear Deflector
- OPC (Engine Stop)
- Warning Decals
- Owners Handbook

For Spare Part numbers, please refer to the Hayter Parts List.

Do not add lubricant or grease to the plastic rear roller bearings.

SETUP

When transporting your mower, ensure that the fuel shutoff valve is in the OFF position.

(Refer fig.1)

Delivery Checklist

IMPORTANT: Remove and discard the protective plastic sheet that covers the engine and any other plastic or wrapping on the machine.

Check that the following items have been supplied correctly. If any items are missing, contact your local Hayter dealer.

1. Engine Handbook
2. Grassbag Assembly
3. Parts List
4. Declaration of Conformity

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

(Refer fig.2)

Assembling and Unfolding the Handle

WARNING: Assembling and unfolding the handle improperly can damage the cables, causing an unsafe operating condition.

- Do not damage the cables when assembling and

unfolding the handle.

- Ensure that the cables are routed to the outside of the handle.
- If a cable is damaged, contact an authorised Service Dealer.

Unscrew the handle securing knobs sufficiently to allow the handle to pivot. Hold the engine stop lever in towards the handle and unfold the handle to the operating position, then release. Tighten both handle knobs to secure in position.

(Refer fig.3)

Grassbag Assembly

Before first use assemble the grassbag and frame. Slide the frame (1) into the grassbag (2), ensuring that the handle is above the grassbag as shown. Attach plastic clips (A), (B), (C) and (D) to the grassbag frame.

Raise the rear deflector, lower the grassbag and hook into position. Lower the deflector to rest on the grassbag.

(Refer fig.4)

Prevent Engine Damage

To prevent engine damage the engine is shipped without oil or fuel. The engine must be filled with the correct grade of oil and fuel before starting the engine. Please refer to your engine manual for more information.

Oil Type

Oil is a major factor affecting performance and service life. Use 4-stroke automotive detergent oil. Always change the oil in accordance with the maintenance schedule.

Use 4-stroke motor oil that meets or exceeds the requirements for API service category SJ or later. Always check the API service label on the oil container to be sure it includes the letters SJ or later.

SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

Check Oil Level

1. Check the oil with the engine stopped and level.
2. Remove the oil fill cap/dipstick and wipe it clean.
3. Insert the oil fill cap/dipstick into the oil fill neck as shown, but do not screw it in, then remove it to check the oil level.
4. If the oil level is near or below the lower limit mark on the dipstick, remove the oil fill cap/dipstick, and fill with the recommended oil to the upper limit mark. Do not overfill.
5. Reinstall the oil fill cap/dipstick.

(Refer fig.5)

Fig. 1

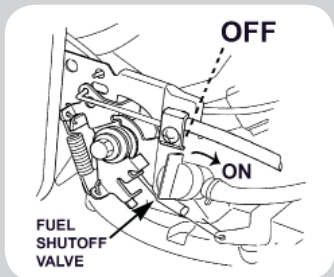


Fig. 2

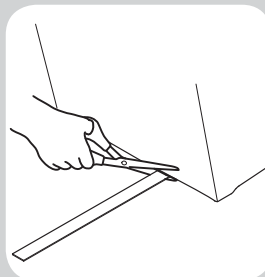


Fig. 3

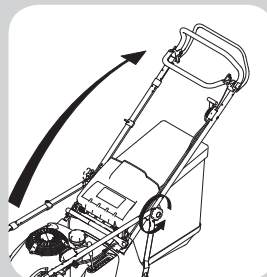


Fig. 4

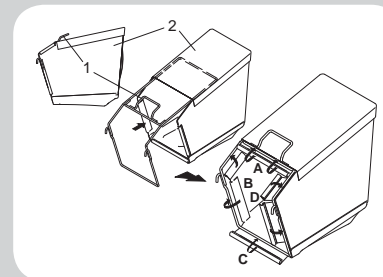
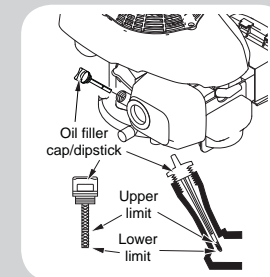


Fig. 5



OPERATING THE MOWER

Fuel Type

Fuel must meet these requirements:

- Clean, fresh, unleaded.
- Purchase fuel in quantities that can be used in 30 days.
- A minimum of 86 octane. High altitude use, see below.
- Fuel with up to 10% ethanol is acceptable.

Petrol will oxidise and deteriorate in storage. Deteriorated fuel will cause hard starting, and it leaves gum deposits that clog the fuel system.

If your equipment will be used on an infrequent or intermittent basis, please mix a fuel stabiliser into the fuel. After adding a fuel stabiliser, run the engine outdoors for 10 minutes to be sure that treated fuel has replaced the untreated fuel in the carburetor.

Turn the fuel shutoff valve to the OFF position.
(Refer fig.1)

Continue to run the engine until it stops from the lack of fuel in the carburetor fuel bowl. Running time should be less than 3 minutes.

If the fuel in your engine deteriorates during storage, you may need to have the carburetor, and other fuel system components, serviced or replaced.

All fuel is not the same. If starting or performance problems occur, change fuel providers or change brands.

Fill to base of neck to allow for fuel expansion. Do not overfill the fuel tank.
(Refer fig.6)

Controls

IMPORTANT: To avoid damage to the cable, the engine speed control should only be operated whilst the engine is running.

Operate all control levers several times and ensure that the cables move freely. Check that the engine stop and ground drive clutch levers return freely to their rest position when released.
(Refer fig.7)

Before Mowing

To prevent accidents, thoroughly inspect the area and remove all 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 or result in damage to the mower. Remember the location of these obstructions and ensure that you mow around them.
(Refer fig.8)

Non Grassed Areas

When moving the mower across non-grassed areas, stop the engine and set the mower to the maximum height of cut to protect the cutting mechanism.
(Refer fig.8)

Height of Cut

To adjust the height of cut:

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

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.
(Refer fig.9)

Fig. 6

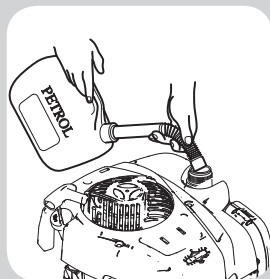


Fig. 7

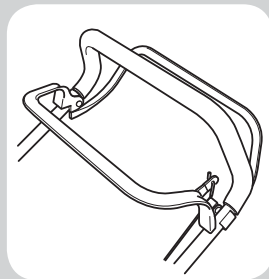


Fig. 8

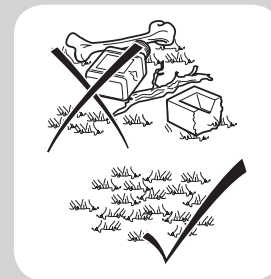
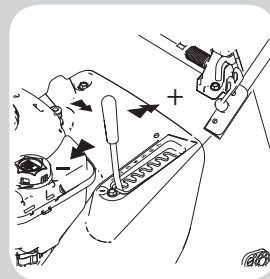


Fig. 9



OPERATING THE MOWER

Starting the Mower

Turn the fuel valve to the ON position. Push the throttle control to the CHOKE position as detailed on the engine speed control. (Refer fig.10)

Stand behind the mower and hold the handle together with the engine stop lever with your left hand. With your right hand hold the engine start cord and pull slowly until resistance is felt, release, then pull rapidly to crank the engine. (Refer fig.11)

Carefully return the start cord to the storage position when the engine starts. Once the engine has started, move the throttle control from the CHOKE position and into the FAST position.

As soon as the engine warms up enough to run smoothly without the use of the choke, move the choke rod to the OFF position.

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

The engine stop lever must be held firmly against the handle to start and keep the engine running. If the engine stop lever is released the engine will stop.

To prevent damage never pull the engine start cord when the engine is running.

Shutting Off the Engine

To shut off the engine, release the engine stop lever and turn the fuel shutoff valve to the OFF position.

Important: When you release the engine stop lever, the engine should shut off and the blade should stop within 3 seconds. If they do not, stop using your machine immediately and contact an Authorised Service Dealer. (Refer fig.10)

Emergency stop: As above. If the engine fails to stop disconnect the spark plug lead. (Refer fig.11)

Forward Travel

Hold the handle and operate the ground drive clutch lever to power the mower in a forward direction. (Refer fig.12)

When the ground drive clutch lever is disengaged the mower may be pushed. This feature is useful when mowing in confined areas. (Refer fig.13)

Only operate the lever with the engine running to prevent damage.

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

Reverse Travel

Release the ground drive clutch lever. Hold and pull against the handle with both hands to reverse the mower.

Parking

Park on level ground.

Turning

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

To make a tight turn release the ground drive clutch lever, apply downward pressure on the handle 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.

Fig. 10

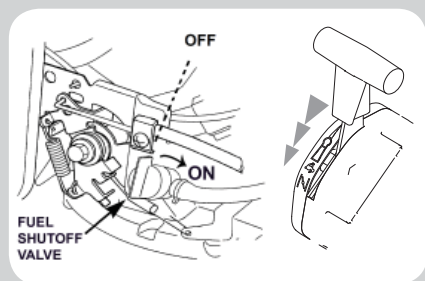


Fig. 11

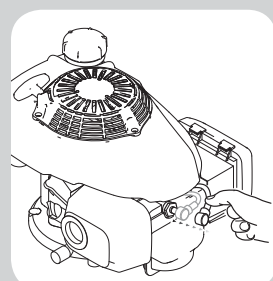


Fig. 12

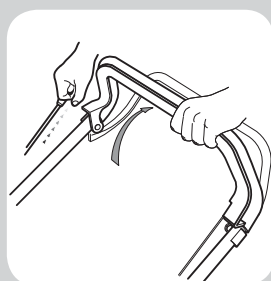
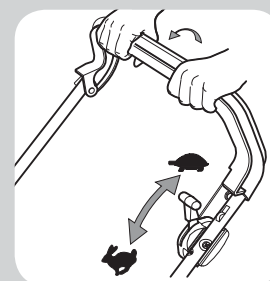


Fig. 13



OPERATING THE MOWER

Grassbag

1. Raise and hold up the rear deflector (1)
2. Hook the grassbag into position (2).
3. Lower the rear deflector.

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. (Refer fig.15)

Collection Without Grassbag

Remove the grassbag and operate the mower with the rear deflector in the closed position. (Refer fig.16)

Heavy Growth

Areas of heavy growth should be mown without collecting the clippings. If collection is required, first mow the area without the grassbag 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.

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

(Refer fig.17)

Friction Disc

The cutterblade is driven by the engine via a friction disc to help prevent damage occurring to the engine crankshaft and cutting mechanism when a hidden obstruction or overload is encountered.

(Refer fig.18)

Always 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.

Fig. 14

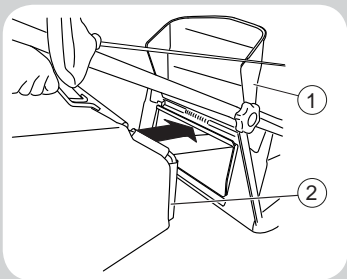


Fig. 15

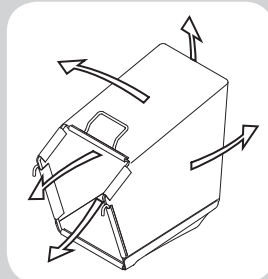


Fig. 16

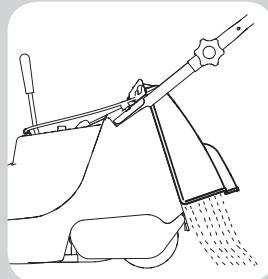


Fig. 17

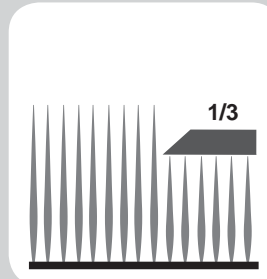
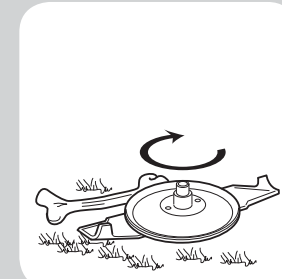


Fig. 18



MOWER MAINTENANCE

Engine Detail

NOTE: Disconnect the spark plug lead and ensure the fuel shutoff valve is in the OFF position before performing any maintenance procedures.

WARNING: Improper maintenance, use of non-conforming replacement components, or the removal or modification of the engine may cause serious injury or death. (Refer to fig 19)

Carburetor Adjustments

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

Oil Service

WARNING: Fuel and its vapours are extremely flammable and explosive. Fire or explosion can cause severe burns or death.

Check the oil level before every use when starting the engine and ensure that the correct oil level is maintained. Refer to Assembling the Mower Before First Use for oil checking and filling instructions.

Change the engine oil after the first 5 hours of operation and

thereafter according to the Maintenance Schedule.

- Drain the fuel by running the engine until the fuel tank is empty.
- Remove the spark plug lead.
- Allow the engine to cool.
- Drain the oil whilst the engine is warm (not hot).
- Tilt the mower over onto its side ensuring that the air filter is kept uppermost to prevent engine damage.
- 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 Assembling the Mower Before First Use. (Refer to fig.20)

Air Filter Service

WARNING: Never start and run the engine with the air filter removed.

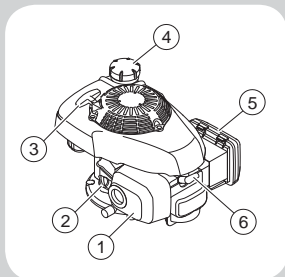
Do not use solvents to clean the filter. Solvents will dissolve the filter.

To service the air filter, press the latch tabs on the top of the air filter cover (1), and remove the cover. (Refer to fig.21)

Remove filter (2) and tap gently on a hard flat surface to remove dirt, or blow compressed air not exceeding 30 psi (207 kPa) through the filter from the clean side that faces the engine. Never try to brush off dirt. Brushing will force dirt into the fibres. Wipe dirt from the air filter body and cover (1) using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the carburetor.

If very dirty, replace.

Fig. 19



1. Muffler
2. Oil fill & Dipstick
3. Start Cord
4. Fuel Filler Cap
5. Air Filter
6. Spark Plug & Lead

Fig. 20

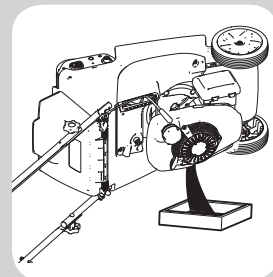
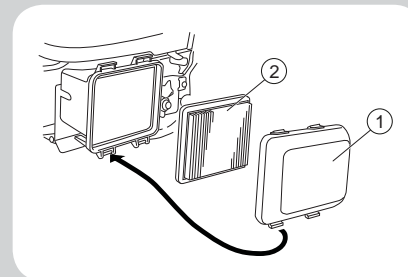


Fig. 21



MOWER MAINTENANCE

Spark Plug Service

For good performance, the spark plug must be properly gapped and free of deposits.

1. Disconnect the cap (A) from the spark plug (B), and remove any dirt from the spark plug area.
2. Use the proper size spark plug wrench to remove the spark plug.
3. Inspect the spark plug. Replace it if damaged, badly fouled, if the sealing washer is in poor condition, or if the electrode is worn.
4. Measure the electrode gap with a suitable gauge. The correct gap is 0.028-0.030" (0.7-0.8 mm). If adjustment is needed, correct the gap by carefully bending the side electrode.
5. Install the spark plug carefully, by hand, to avoid cross threading.
6. After the spark plug is seated, tighten with the proper size spark plug wrench to compress the washer.

When installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer.

When reinstalling the original spark plug, tighten 1/8-1/4 turn after the spark plug seats to compress the washer.

Properly tighten the spark plug. A loose spark plug can become very hot and can damage the engine. Over tightening the spark plug can damage the threads in the cylinder head.

7. Attach the spark plug cap to the spark plug.
(Refer to fig.22)

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 after every use.

Never spray the engine with water during cleaning. Water can contaminate the fuel. Always clean with a brush or air.

(Refer to fig.23)

Grass and debris may clog the engines air cooling system especially after prolonged operation whilst 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 Hayter Service Dealer.

Grassbag

WARNING: Improper maintenance, use of non conforming replacement components, or the removal or modification of the grassbag may cause death or serious injury.

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.
(Refer fig.24)

Rear Deflector

WARNING: Improper maintenance, use of non conforming replacement components, or the removal or modification of the rear deflector may cause death or serious injury.

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

Fig. 22

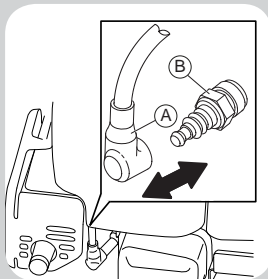


Fig. 23

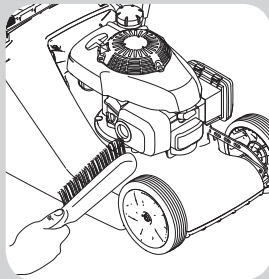
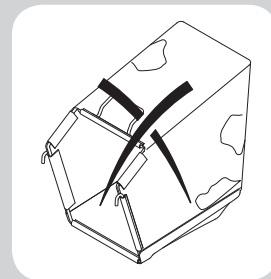


Fig. 24



MOWER MAINTENANCE

Easy-Wash Port

WARNING: Improper maintenance, use of non conforming replacement components, or the removal or modification of the deck may cause death or serious injury.

Debris build up inside a mower underdeck can impair cut and collection performance.

Keep your mower clean by using the convenient washout port.

1. Attach a garden hose that is connected to a water supply to the washout port.

(Refer fig.25)

2. Turn the water on.
3. Start the engine and run it until there are no more clippings that come out from under the machine.
4. Shut off the engine.
5. Shut off the water and disconnect the garden hose from the machine.
6. Start the engine and run it for a few minutes to dry the underside of the machine.
7. Allow the engine to cool before storing the machine in an enclosed area.

Securing Nuts & 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 casing.

Cutterblade Removal

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

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 side and ensure that the air filter side of the engine is uppermost.

Note how the cutterblade is assembled be removing.

Firmly grip the end of the cutterblade (4) with a gloved hand and remove bolt (1), spring washer (2) and distance piece (3) securing the cutterblade with a 9/16" A/F spanner.

(Refer fig. 26)

To prevent accidents never work on the cutterblade unless the spark plug lead has been removed. The cutterblade has sharp edges. **ALWAYS** wear strong work 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 54 Nm.

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

Fig. 25

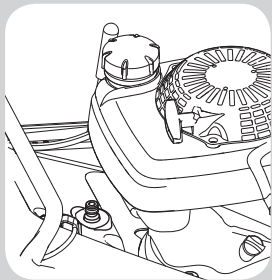
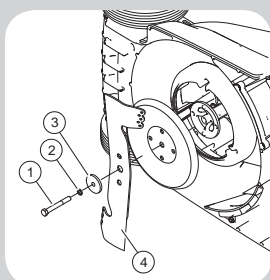


Fig. 26



MOWER MAINTENANCE

Cutterblade Assembly

Assemble the cutterblade (4) with the turned up edges facing towards the engine. Secure the cutterblade (4) using the bolt (1), spring washer (2) and distance piece (3).
(Refer fig. 27)

Check that the bolt securing the cutterblade is tightened to the specified torque of 54 Nm. The blade will curve slightly when tightened against the friction disc.

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.
(Refer fig.28)

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.
(Refer fig.28)

If the cutterblade is not balanced the heavy end will rotate downwards. Sharpen the heavy end until the cutterblade is correctly balanced.
(Refer fig.29)

Blade Brake Test

With the engine stop OPC lever away from the handle in the stop position; gently try to pull the engine start cord. The cord should be difficult to pull. If it is too easy to pull, the engine brake is not working correctly. Do not use the mower, have it repaired by your Hayter dealer (or a trained technician).

Storage

When storing your mower away, ensure that cables do not become snagged at the pivot point. Ensure that the cables are routed to the outside of the handle. If a cable is damaged, contact an authorised Service Dealer.

Depress the engine stop lever to prevent it being damaged through contact with the engine.

To store the handle, unscrew the 2 small securing knobs sufficiently to allow it to be pivoted forwards to rest against the mower.
(Refer fig.30)

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-cord 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, around and behind exhaust/exhaust guard and ensure that the grassbag is clean.
- Lubricate the mower and 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.

Fig. 27

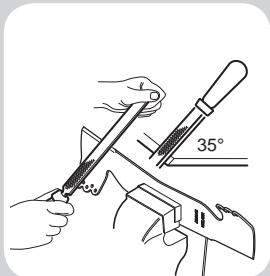


Fig. 28

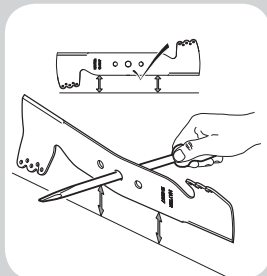


Fig. 29

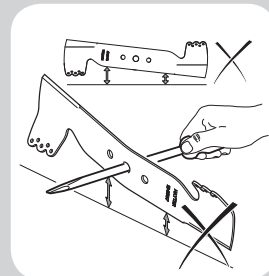
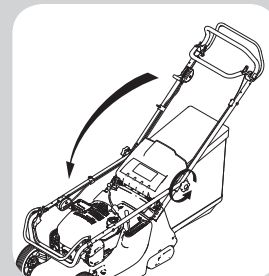


Fig. 30



MAINTENANCE SCHEDULE

Maintenance Schedule

Follow the hourly or calendar intervals, whichever occurs first.

More frequent service will be required if working for prolonged periods under dusty, dry conditions, when airborne debris is present or after extensive operation cutting tall, dry grass.

First 5 Hours

- After the very first five hours change the engine oil.

Daily or Each use

- Check the oil level.
- Remove grass debris from around the engine, exhaust/exhaust guard, air ways in the top cowl and the underside of the deck housing.
- Check the condition of guards and safety devices.
- Check condition of cutterblade.
- Check condition of grassbag and ensure airways are clear (replace if damaged).

25 Hours Or Every Season

- Change the engine oil if continuously operating under heavy load or high ambient temperature.
- Service the air filter.
- Lubricate wheels, pivot points and linkages.
- Grease the inner control cables at point of entry and exit from their outer casing.
- Sharpen the cutterblade.

50 Hours Or Every Season

- Change the engine oil.
- Check spark plug.

100 Hours Or Every Season

- 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.
- Replace the air filter.

- Check the idle speed.
- Clean the combustion chamber.

Failure to follow this maintenance schedule could result in non warrantable failures.

LAWN CARE CALENDAR *To be used as a guide only*

January

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

February

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.

April

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.

June

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.

July

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.

August

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.

September

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

October

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.

December

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.

Lawn Stripes

The way to achieve a neat striped effect is for the lawn being cut in parallel stripes, alternate stripes being mown in opposite directions. A much more important routine is to cut at right angles to the line of the previous mowing. If the work has been carried in a north-south line, then the next cutting should be in an east-west direction. The cross-cutting keeps down the coarse weed grasses.

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

TROUBLE SHOOTING

PROBLEM	CAUSES	CORRECTIVE ACTION
Engine will not turn over	Engine stop lever released	Operate engine stop lever
	Incorrect oil level	Check oil level
	Obstruction under deck	Remove obstruction
Engine smokes	Excess oil	Check oil level
	Air filter cartridge oil soaked or blocked	Service air filter
Engine runs then stops	Fuel starvation	Fill fuel tank / Turn fuel shutoff valve to the 'ON' position
	Fuel cap vent blocked	Clean fuel cap vent
Engine will not start	Engine under load	Raise the height of cut
	Incorrect / contaminated fuel	Drain tank and fill with correct fuel
	Spark plug lead disconnected	Connect spark plug lead
	Engine brake not released	Operate engine brake lever
	Faulty spark plug	Clean and adjust the gap or replace
	Wiring fault	Check wiring
	Fuel shutoff valve in the 'OFF' position	Turn fuel shutoff valve to the 'ON' position
Engine runs rough	Spark plug lead becoming disconnected in use	Connect spark plug lead
	Faulty spark plug	Clean and adjust gap or replace
	Air filter blocked	Service air filter
	Incorrect / contaminated fuel	Drain tank and fill with correct fuel

PROBLEM	CAUSES	CORRECTIVE ACTION
Engine vibrates excessively	Mounting bolt loose	Tighten bolt
	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 cutterblade
	Cutterblade out of balance	Balance the cutterblade
	Wheels/roller damaged	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
	No airflow through the grassbag	Clean the grassbag
Mower is hard to push	Cut height too low	Increase cut height
	Wheels/roller damaged	Inspect and replace as necessary
Mower will not self propel	Drive belt damaged	Replace drive belt
Poor grass condition	No airflow through the grassbag	Clean the grassbag
	Discharge chute blocked	Remove blockage
	Wet grass	Mow dry grass
	Grassbag full	Empty grassbag
Cutterblade drive will not engage/disengage	Engine stop lever not fully forward	Push fully forward to disengage

WARRANTY

2 Year Warranty – Residential/Commercial Use

Hayter Limited warrants to the original purchaser that this unit shall be free from defects in material and workmanship, under normal use, for a period of two years from the date of purchase. The manufacturers of the engine furnish their own warranty and services are provided through their authorised network (Refer to the Engine Manual for the “Engine Warranty Statement”).

To qualify for the 2 year warranty, you must have the machine serviced by an Authorised Hayter Service Dealer* within 12 months of the date of purchase. Please note that these services will be charged at a rate agreed between you and the Dealer. If the machine is not serviced at the end of the twelve month period, the warranty will automatically expire.

Lifetime Crankshaft Warranty

All Hayter branded machines which are fitted with a genuine Hayter Friction Disc or Crankshaft Support Bearing as original equipment, used by the original purchaser in accordance with recommended operating and maintenance procedures, are covered by a Lifetime Warranty against engine crankshaft bending. Machines fitted with friction washers, Blade Brake Clutch (BBC) units and other such devices are not covered by the Lifetime Crankshaft Warranty.

Terms and Conditions

Hayter shall, at our option, repair or replace any part covered by warranty during the applicable period.

Your product must be registered within 14 days of purchase to qualify for the full benefit of the product warranty. Please go to www.hayter.co.uk/warranty-registration to complete this process.

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. Minor mechanical adjustments are not covered 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.

Excluded from the warranty are those items which are subject to normal wear and tear including but not limited to, tyres, wheels, cutterblades, belts, cables and other consumable wearing parts.

Making a Claim

To make a warranty claim, return the unit to a Hayter Authorised Service Dealer, along with proof of purchase stating the machine serial number and date of purchase and the service receipt(s) or stamped service card.

This warranty gives you specific legal rights and are in addition to any statutory rights to which you may be entitled. 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 or email customer.care@hayter.co.uk.

*Details of your local Hayter Authorised Dealer can be found on the Hayter website www.hayter.co.uk or contact: Freephone 0800616298/email: customer.care@hayter.co.uk.

The Information Hayter Collects

This warranty is jointly administered by Hayter Limited (Hayter) and its affiliate, Toro Warranty Company (Toro). Hayter and Toro respect your privacy. In order to process your warranty claim and contact you in the event of a product recall, we ask you to share certain personal information with us, either directly or through your local Hayter dealer.

Your personal information will be processed by Hayter in the UK. It will also be entered into the Toro warranty system, which is hosted on servers located within the United States where privacy law may not provide the same protection as applies in your country.

BY SHARING YOUR PERSONAL INFORMATION WITH US, YOU ARE CONSENTING TO THE PROCESSING OF YOUR PERSONAL INFORMATION AS DESCRIBED IN THIS PRIVACY NOTICE.

The Way We Use Information

Hayter and Toro may use your personal information to process warranty claims, to contact you in the event of a product recall, to gauge customer satisfaction, and for any other purpose which we tell you about. We may share your information with our parent, The Toro Company, or with our affiliates, dealers or other business partners in connection with any of these activities. We will not sell your personal information to any other company. We reserve the right to disclose personal information in order to comply with applicable laws and with requests by the appropriate authorities, to operate our systems properly or for our own protection or that of other users.

Retention of your Personal Information

We will keep your personal information as long as we need it for the purposes for which it was originally collected or for other legitimate purposes (such as regulatory compliance), or as required by applicable law.

Our Commitment to Security of Your Personal Information

Hayter and Toro take reasonable precautions in order to protect the security of your personal information. We also take steps to maintain the accuracy and current status of personal information.

Access and Correction of your Personal Information

If you would like to review or correct your personal information, please contact us by email at legal@toro.com.

June 11, 2012

NOTES

NOTES

SERVICE RECORDS & CUSTOMER INFORMATION

Please ensure that upon completion of each chargeable Service you retain your invoice/receipt.

1st Year (12 Months)

We certify that this service has
been carried out by an
Authorised Hayter Service
Dealer

Date: _____

DEALER DETAILS

Date of Sale:- _____

Engine Type:- _____

Engine:- _____

DEALER DETAILS

SERIAL NO. LABEL

Hayter Limited

Spellbrook, Bishop's Stortford,
Hertfordshire CM23 4BU England

Tel: +44 (0)1279 723444 Fax: +44 (0)1279 600338

www.hayter.co.uk