T424

MOWER

CODE 953C

OPERATOR'S MANUAL

THIS MANUAL SHOULD BE REGARDED AS PART OF THE MACHINE, AS IT GIVES ESSENTIAL INFORMATION REGARDING MACHINE SAFETY, OPERATION, MAINTENANCE AND SPECIFICATIONS.

English Version FROM SERIAL NO: 953C001001 Issue: 01.10.04

MANUAL PART NO: 953910 (REV.0.)

Download from Www.Somanuals.com. All Manuals Search And Download.

ATTENTION



THIS SYMBOL MEANS BE ALERT!

YOUR SAFETY IS INVOLVED

READ THIS MANUAL BEFORE USING THE T424 MOWER. IT IS ESSENTIAL THAT OPERATORS STUDY IT FOR THEIR OWN SAFETY.

ALL OPERATORS SHOULD SEEK AND OBTAIN PROFESSIONAL AND PRACTICAL INSTRUCTIONS ON THE SAFE USE OF THE MOWER. THESE SERVICES ARE AVAILABLE THROUGH HAYTER LIMITED OR HAYTER APPROVED COMMERCIAL DEALERS.

CONTENTS

CONTENTS Page No. 1.6 - 1.14 SAFETY PRECAUTIONS. Training. 1.6 1.6 - 1.7 Preparation. 1.7 - 1.9 Operation. Handling and storage of fluids. 1.10 Maintenance and storage. 1.11 Decals. 1.12 - 1.14 EC CONFORMITY INFORMATION. 1.15 - 1.16 Noise levels. 1.15 EC Declaration of Conformity. 1.16 INTRODUCTION. 1.17 SPECIFICATIONS. 1.18 - 1.24 1.18 Engine. 1.19 Transmission system. 1.19 Cutterhead drive system. 1.20 Cutterhead lift system and steering. 1.20 Hydraulic system. 1.21 Vehicle specifications. 1.22 Operator controls. 1.22 Instrumentation. 1.23 Weight and dimensions. 1.23 Recommended lubricants and hydraulic fluids. 1.24 Cutterheads. **OPERATING THE MOWER.** 1.25 - 1.44 1.25 Safety notice. Operator presence controls. 1.25 Identification of controls. 1.26 Braking system. 1.27 Throttle control. 1.27 Travel. 1.27 Work/Transport modes. 1.28 Transport latches. 1.28 Differential lock. 1.29 Travel control pedals. 1.29 1.30 Forward travel speed backstop lever. Operator platform latching mechanism. 1.30 Adjustable steering column. 1.31 1.32 Operator seat. Warning systems. 1.33 Audible warning horn. 1.33 1.34 Ignition key. Engine pre-heat indicator light. 1.34

CONTENTS

CONTENTS	Continued	– Page No. —————
Fuel level gauge.		1.34
Hourmeter.		1.34
Transmission neutral indicator light.		1.35
Cutterhead drive sw	itch indicator light.	1.35
Parking brake indicator light.		1.35
Hydraulic return filt	ter indicator light.	1.35
Hydraulic transmiss	ion filter indicator light.	1.35
Transmission system	n 'Work' mode indicator light.	1.35
Cutterhead position	control.	1.36
Dual lift configurati	on control.	1.36
Cutterhead drive en	gagement.	1.37
Weight transfer/trac	tion assistance.	1.38
Starting the engine.		1.38 - 1.39
Stopping the engine		1.39
General operating h	ints.	1.40
Unblocking cutting	cylinders.	1.41
Cutterhead general	information.	1.42
MK3 200mm Fixed	Cutterhead.	1.43
MK3 254mm Fixed	Cutterhead.	1.43
MK3 200mm Floati	ng Cutterhead.	1.44
MAINTENANCE.		1.45 - 1.64
General safety and good practice.		1.45 - 1.46
Engine.		1.47
Running in period.		1.47
Running in period - at first 50 hours.		1.47 - 1.48
Daily and before use.		1.49 - 1.52
Every 50 hours.		1.53 - 1.54
Every 250 hours.		1.55
Every 500 hours.		1.56 - 1.58
Cutterhead cylinder	to bottom blade adjustment.	1.59
Cutterhead backlapp	ping.	1.60
Cutterhead grinding		1.61
Cutterhead bottom b	plade replacement.	1.61
Raising the mower off the ground.		1.62
Towing the mower.		1.63 - 1.64
GRASS CUTTING	G FAULTS.	1.65 - 1.67
TROUBLE SHOOTING.		1.68 - 1.74
ELECTRICAL CIRCUIT DIAGRAM.		1.75 - 1.78
TRANSMISSION/BRAKE HYDRAULIC CIRCUIT.		1.79 - 1.80
HYDRAULIC CIR	RCUIT DIAGRAM.	1.81 - 1.82
WARRANTY.		1.83
NOTES.		1.84
CUSTOMER INFORMATION.		1.85

1.5

READ THIS MANUAL BEFORE USING THE T424 MOWER, IT IS ESSENTIAL THAT OPERATORS STUDY IT FOR THEIR OWN SAFETY.

THE FOLLOWING PRECAUTIONS MUST BE TAKEN TO HELP PREVENT ACCIDENTS. A CAREFUL OPERATOR WHO USES COMMON SENSE IS THE SAFEST OPERATOR.

TRAINING A

Read the instructions carefully. Be 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 Δ may restrict the age of the operator.

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

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

Do not carry passengers.

All drivers should seek and obtain professional and practical instruction. Such instruction should emphasise:

- The need for care and concentration when working with this machine.
- The need to slow down when making tight turning manoeuvres. Failure to take adequate care can affect stability leading to loss of control of the machine particularly when operating in transport mode.
- Control of a ride-on-machine sliding on a slope will not be regained by application of the brake. The main reasons for loss of control are:
 - Insufficient wheel grip.
 - Being driven too fast.
 - Inadequate braking.
 - The type of machine is unsuitable for the task.
 - Lack of awareness of the effect of ground conditions, especially slopes.
 - Incorrect load distribution.

PREPARATION



Check that the machine complies with all applicable regulations, including those in force when used on the public highway.



While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals. Eye protection should be worn.

Thoroughly inspect the area where the equipment is to be used and remove all objects which can be Δ thrown by the machine.

Never operate the machine without first checking that the operator platform latching mechanism is fully engaged and in good working order, refer - 'OPERATOR PLATFORM LATCHING MECHANISM'.

SAFETY PRECAUTIONS



OFERALION

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



Mow only in daylight or in good artificial light.

Before attempting to start the engine, engage the parking brake, disengage the cutterhead drive system and ensure that the forward/reverse speed controls are in the neutral position.



Never operate the machine without first checking that the operator platform latching mechanism is fully engaged and in good working order, refer - OPERATOR PLATFORM LATCHING MECHANISM.

Stored energy devices are charged when the outer wing units are in the transport position. Always operate the relevant lift controls to provide hydraulic support for the wing units suspensions before attempting to release the transport latches.



SAFETY PRECAUTIONS

OPERATION Continued. Watch out for traffic when crossing or near roadways. Use extreme caution when reversing. Disengage the cutterhead drive system before crossing surfaces other than grass. When using the machine, never direct the discharge of material towards bystanders or allow anyone near the machine while in operation. Never operate the mower with defective guards, shields or without safety protective devices in place and in good working order. Do not change the engine governor settings or overspeed the engine. Operating an engine at excessive speed may increase the risk of personal injury. Before leaving the operator's position: - Disengage the drive to the cutterheads. - Lift cutterheads to the transport position and securely lock the safety latches or alternatively lower cutterheads to the ground. - Change into neutral and set the parking brake. - Stop the engine and remove the ignition key. Engage the parking brake, disengage the drive to the cutterheads, stop the engine and remove ignition key : - Before releasing blockages. - Before checking, cleaning or working on the mower. - After striking a foreign object. Inspect the mower for damage and make repairs before restarting and operating the equipment. - If the machine starts to vibrate abnormally (check immediately). - Before refuelling. - Before making cutterhead adjustments. Disengage the drive to the cutterheads when transporting or not in use. Reduce the throttle setting during engine run - out. Never work on the mower when the engine is running. Always keep feet and hands well away from the cutting cylinders when making adjustments. Never operate the mower without first checking that the operator platform is securely latched.

953910KG141004

1.9

HANDLING AND STORAGE OF FLUIDS

Hydraulic Oil

- Avoid contact with eyes and prolonged contact with skin.
- Protective goggles should be worn when pouring.
- Use of gloves or barrier cream is recommended.
- Wash hands thoroughly after contact.
- Store under cover, away from heat and sources of ignition.



- Avoid skin and eye contact.
- Wear impervious gloves when regular contact is likely and goggles when there is risk of splashing.
- Wash hands thoroughly after contact.
- Store in a cool dry well ventilated place away from heat and sources of ignition, in vessels specifically designed for storing fuel oils.



Lubricating Oil

- Avoid skin and eye contact.
- Wear impervious gloves when regular contact is likely and goggles when there is risk of splashing.
- Wash hands thoroughly after contact.
- Store in a cool dry well ventilated place away from heat and sources of ignition.



Anti- Freeze

- Keep away from heat, sparks, and flames.
- Avoid skin and eye contact and breathing vapours.
- Store in a closed container in a cool dry well ventilated area.

SAFETY PRECAUTIONS

MAINTENANCE AND STORAGE Take care when rotating a cutting cylinder as this can cause other cylinders to rotate. When the machine is to be parked, stored or left unattended, lift the cutterheads to the transport position and engage the safety locks or lower the cutterheads to the ground. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition. Allow the engine to cool before storing in any enclosure. To reduce the risk of fire, keep the engine, silencer, fuel tank and battery compartment free of grass, leaves or excessive grease. Frequently check fuel lines and fittings for cracks or leaks and replace if necessary. Replace worn or damaged parts for safety. Ensure that all safety decals are properly secured and in good condition. If the fuel tank has to be drained, this should be done outdoors. Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine. Never attempt to disconnect any part of the hydraulic system before de-pressurisation. This may be achieved by lowering all cutterheads to the ground, stopping the engine and removing the ignition key. Avoid skin or eye contact with hydraulic or diesel fluids. Wear protective clothing. Leaking fluids under pressure can penetrate the skin or eyes, causing serious injury.

Always use a piece of cardboard or paper when searching for leaks.

Health and Safety at Work Act:

In accordance with section 6 of the Health and Safety at Work Act 1974, the T424 Turf Mower has been designed and constructed so that, in so far as is reasonably practical, it will not endanger the safety and health of those working with it. This is, however, subject to the machine being properly used and maintained according to the conditions stated in this manual and elsewhere, which have been found necessary as a result of the research and testing of Hayter Limited.

Decal - Control Panel Part No: 994912

- Location: Control Panel. a) Ignition Switch
 - h) Cutters Off
- b) Engine Speed Slow
- c) Engine Speed Fast
- d) Parking Brake Engage
- e) Parking Brake Disengage 1) Cutters Hold
- f) Weight Transfer Control
- g) Cutters Reverse
- m)Cutters Drop/Float

i) Cutters - Forward

n) Hour Meter

k) Cutters - Lift

j) Horn



Decal - Inclines Part No: 924857 (1)

Location: Centre Platform.

- a) Warning Travel slowly when turning and on slopes
- b) Warning Maximum slope without ROPS
- c) Warning Seat belt must be worn with a ROPS fitted.
- d) Caution
- e) Read operators manual
- f) Stop engine/Remove ignition key before servicing or maintenance
- g) Beware of flying objects
- h) Keep bystanders clear

Decal - Danger Latch Part No: 70-13-077

Location: LH / RH / Centre Arms

a) Caution

b) Stop engine/Remove ignition key before releasing or operating safety latches

Decal - Diesel Part No: 70-13-078 Location: Fuel Tank Diesel fuel only

Decal - Transmission Oil Part No: 70-13-071 Location: Oil Filler Bracket mounted behind Fuel Tank. a) Transmission oil b) Read and understand the operators manual.











DECALS

Continued.

Decal - Jacking / Support Point Part No: 70-13-072 Location: Front Axle - 2 Points Rear Towing Eye Jacking and support point



Decal - Engine Fan / Radiator

Part No: 70-13-073 Location: Engine Fan Cowl a) Danger of severing fingers b) Caution c) Warning - Hot surfaces

Decal - Hayter and Royal Warrant Part No: 410087 Location: Platform, Front

Decal - Side LH

Part No: 953907 Location: Engine Cover LH/RH Side

Decal - Tyre Pressure

Part No. 950832 Location: LH/RH Chassis - 4 Places a) Mowing b) Road travel



Decal - Diff Lock / Control Pedal Part No: 953876

Location: Centre Platform a) Differential lock b) Depress to engage diff-lock c) Release to dis-engage diff-lock d) Reverse speed - directional control e) Forward speed - directional control

Decal - Noise Part No. 922854 Location: Base of Seat on GRP



, -

NLY REMOVE RADIATOR CAP WHEN ENGINE IS COO FAUT TOUJOURS ATTENDRE LE REFROIDISSEMENT

DECALS

Continued.

Decal - Serial Number Location: Rear Bulkhead

Decal - Prevent Platform Damage Part No. 924828 Location : Platform, Seatwell

Decal - Warning Platform Latch Part No. 924868 Location: Next to Platform Latch Warning - Prevent Accidents: Ensure platform is correctly seated and the latch is fully locked before operating the machine.

Decal - Maintenance T424 Part No. 953812 Location: Underside of Engine Cover next to Latch.









Decal - Warning Crush Hazard

Part No. 953829
Location: Platform LH/RH Sides
a) Warning of Cutterheads being Lowered
b) Do Not Stand in the Area Indicated When the Cutterheads are being Lowered or Raised

Decal - Pedal Backstop Part No. 953877 Location: Platform RH Side





NOISE LEVELS

Operators Daily Personal Noise Exposure: HAYTER LIMITED have no control over site conditions, duration of use, state of maintenance or adjustment of the mower. All of these factors will affect the operator's daily personal noise exposure level - L_{EPd}

Under typical working conditions operators could be exposed to a daily personal noise exposure level in excess of 85 dB (A) $L_{EP,d}$

Sound pressure level:

The maximum sound pressure level at the operator's position is 85 dB (A) measured in accordance with European Standard EN836.

Sound power level:

The maximum sound power level is 105 dB(A) measured in accordance with EC Directive 2000/14/EC.

If ear protection is required, ear protectors with good attenuation in the 63 - 8000 Hz frequency range should be used.

Employers of personnel using this machine are advised to read the 'Noise at Work Regulations' as the operator's daily personal exposure level could be above the 'First Action Level'.





Wear Hearing Protection

EC DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY

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

declare that the lawnmower:

Type. Model Name: Model No: Cutting Width: Speed of rotation of cutting device: Engine Manufacturer: Speed of rotation of engine: Ride-on Cylinder Lawnmower T424 Turf Mower Code 953C 346 cm 1050 rpm Kubota 2800 rpm

Complies with the provisions of Directive: 98/37/EC Essential Health & Safety Requirements Relating to the Design & Construction of Machinery and Safety Components, as amended and the regulations transposed into national law.

Also Directive 89/336/EEC Electromagnetic Compatibility, as amended and the regulations transposed into national law.

Also Directive 2000/14/EC Noise emission in the environment by equipment for use outdoors and the regulations transposed into national law.

Procedure applied for the conformity assessment: ANNEX VI, procedure 1.

Notified Body: Sound Research Laboratories Ltd. Holbrook House, Little Waldingfield, Sudbury, Suffolk,COL0 OTH ENGLAND Notified body identification No: 1088

Measured sound power level: Guaranteed sound power level:

104 dB(A) 105 dB(A)

Complies with harmonised standards: EN 292, EN 836 and EN ISO 14982.

Standards Used: EN292, EN836 and ENISO14982

Authorised Signature

S.A. Maryniak (Technical Director) Date: 01.10.04

Declaration done and Technical Documentation Kept at: HAYTER LIMITED, Spellbrook, Bishop's Stortford, Herts CM23 4BU ENGLAND

VIBRATION INFORMATION =

Lawnmower vibration information. Vibration at the operators contact position measured in accordance with European Standards EN 836.

- steering wheel does not exceed 2.5ms⁻²
- at seat does not exceed 0.5ms⁻²

INTRODUCTION

The Hayter T424 Mower is a diesel engine powered self propelled machine with hydraulic systems for ground drive, cutterhead drive, cutterhead lift and steering. The machine operates in four wheel drive at all times, however, the transmission system can be operated in both 'work' and 'transport' modes. These modes can be selected by the operator. In order to optimise machine performance and reduce transmission system wear it is advisable to operate the machine in the appropriate mode. 'Work' signifies cutting operations and 'Transport' signifies travelling between work sites. A differential lock function may be selected.

The Hayter T424 Mower is a precision built machine designed solely for cutting grass and similar low lying ground vegetation within the limitations stated in this manual. 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 Operators Manual also constitute essential elements of the intended use. The way in which this machine is operated and maintained will have a profound effect on its performance and reliability.

This manual contains advice on the Hayter T424 Mower which 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 herein and all other generally recognised regulations on safety and all road traffic regulations 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.

In the pursuit of continuous product development Hayter Limited reserve the right to alter specifications without notice.

Cutterhead Variants: The Hayter T424 can be fitted with a range of cutterhead configurations and optional extras:

linder diameter	Number of blades	Fixed Heads	Floating Heads with smooth or grooved front rollers
0mm 54mm	4, 6, 8, 10. 4, 6	√ √	~
71 0 52	inder diameter)mm 4mm	inder diameterNumber of blades0mm4, 6, 8, 10.4mm4, 6	inder diameterNumber of bladesFixed Heads0mm4, 6, 8, 10.✓4mm4, 6✓

Optional Extras:

Beacon Kit - Amber flashing warning light.

Lighting Kit - Complies with EC traffic regulations.

R.O.P.S (Roll Over Protective Structure) 2 post design.

Cab R.O.P.S. - Full weather protection and roll - over protection.

We recommend the fitting of a Hayter approved R.O.P.S only, to increase operator safety in the event of a machine rolling over.

Note: with a R.O.P.S. fitted stability angle is decreased to 14 degrees, due to the higher centre of gravity in the machine

Left and Right: Throughout this manual the terms 'Left' and 'Right' refer to the machine when looking in the direction of forward travel.

SPECIFICATIONS

ALL FIGURES ARE NOMINALLY QUOTED AT THE RATED ENGINE SPEED OF 2800 RPM UNLESS OTHERWISE STATED.

ENGINE	
Туре:	Kubota V2203 Diesel. 4 Cylinders in line.
Power Rating:	47.3hp (35.3 kw) @ 2800 RPM. DIN 70020.
Capacity:	2197 сс.
Air Cleaner:	Clean air drawn through screened air intake in-front of radiator via a cyclonic air cleaner with built in pre-cleaner.
Cooling System:	Water-Cooled.
Battery:	12V. 480 Amps S.A.E.
Alternator:	40 Amps.
Starter:	1.4 KW Electric.
Cold Starting:	Glow Plug.
Idle Speed:	1250(± 50) R.P.M.
Fuel Type:	Diesel.
Fuel Tank Capacity	70 Litres

TRANSMISSION SYSTEM	
Drive Type:	Hydraulic.
Pump:	Variable displacement hydraulic piston pump with integral charge pump servo assisted.
Wheel Motors:	Front Axle - 'Twin Lock' Radial piston, fixed displacement, with integral disc brake (pressure released). Rear Axle - Radial piston, fixed displacement.
Differential Lock:	Electro - hydraulic control valve with pedal control (only available in 'Work' mode).
Drive:	Four wheel drive in 'Work' and 'Transport' modes.
Relief Valve Setting:	Main service relief 350 bar (5075 psi) differential. Charge pressure relief 29 bar (421 psi) differential.

Drive Type:	Hydraulic.
Pump:	Tandem hydraulic gear type.
Delivery Rate:	31 Litres per minute. (each circuit)
Cutterhead Motors:	Hydraulic gear type, reversible, pressure balanced with integral differential pressure sensing relief check valve. Direct drive.
Control:	Electro-hydraulic. Automatic diverter valve safety cut-off.
Relief Valve Settings:	250 bar (3625 psi) differential.

CUTTERHEAD LIFT SYSTEM AND STEERING

Drive Type:	Hydraulic.
Pump:	Hydraulic gear pump with integral relief valve.
Delivery Rate:	11 Litres per minute.
Steering:	Power beyond hydrostatic steering valve with priority flow to steering and auxiliary flow to cutterhead lift system. Manual emergency steering.
Cutterhead Lift Control:	Mechanical-hydraulic.
Wing Units:	Mechanical spring power assistance to lower.
Relief Valve:	105 bar (1522 psi).
Weight Transfer:	Variable hydraulic applied weight transfer acting on all cutterheads.

HYDRAULIC SYSTEM

Hydraulic Oil Type:	Refer - RECOMMENDED LUBRICANTS AND HYDRAULIC FLUIDS.
Capacity:	77 Litres.
Cooling:	Forced air finned tube oil cooler.
Suction Line Filtration:	125 micron no bypass mesh filter.
Return line Filtration:	10 micron with 2 bar (29 psi) bypass check valve.
Transmission Filtration:	10 micron no bypass pressure filter.
Cleanliness Level:	ISO Code 18/13 or better (ISO 4406) 1300 - 2500 Particles/ml<15μ 40 - 80 Particles/ml>15μ
Maximum Oil Temperature:	95°C

Travel Speed:	0-25 km/h (0-15 mph) forward.
	0-11 km/h (0-7 mph) reverse.

Tyres	Туге Туре	Recommended Tyre Turf Conditions	Pressures Road Conditions	Max Pressure
Front axle	26 x 12 - 12 4 ply	0.7 bar	1.4 bar	1.7 bar
	Trelleborg turf pattern.	(10 psi)	(20 psi)	(25 psi)
Rear axle	20x10.0-8 4 ply	0.7 bar	1.4 bar	1.7 bar
	Dico turf pattern.	(10 psi).	(20 psi)	(25 psi)

Wheel Nut Torque Setting: Front axle Rear axle

Service Brakes: Closed loop hydrostatic service braking operating on front wheels only.

Parking Brake: Lever operated oil immersed disc brakes on front wheels only. Pressurised hydraulic oil release with mechanical override for emergency towing purposes.

200Nm

54Nm

Ground Clearance: 180mm at 13mm cut height and with cutterheads raised.

Steering: Hydrostatic rear wheel steering, emergency manual steering.

Features:	Tilting operator platform. Lockable engine cover. Adjustable suspension seat with folding arms.				
					Adjustable steering column.
					Cutterhead parking latches with safety locks.
	Backlapping facility.				
	Differential lock.				
	Engine coolant and hydraulic oil overheat audible warning (horn).				
	Variable cutterhead weight transfer/traction assistance.				
	Four wheel drive in 'Work' and 'Transport' modes.				
	Hydraulic oil filter blocked telltales on control panel.				
	Wing arm breakback.				
Safety Features:	Neutral start interlock on transmission pump, parking brake and cutterhead drive switch.				
	Operator presence control (seat switch).				

OPERATOR CONTROLS

Steering:	Automotive padded steering wheel with adjustable steering column.
Cylinder Drive:	Electrical switch (forward - off - reverse).
Engine Speed:	Hand operated lever.
Parking Brake:	Hand operated lever.
Forward and Reverse:	Separate foot operated pedals.
Ignition:	Key start, shut - off and engine preheat.
Differential Lock:	Foot pedal.
'Work' or 'Transport' modes:	Electrical Switch.
Cutterhead Position:	Hand operated lever.
Cutterhead Lift Configuration:	Electrical Switch (Two Positions).
Horn:	Button switch.
Weight Transfer:	Hand wheel.

INSTRUMENTATION

Warning Lights: Engine oil pressure. Battery charge. Engine coolant temperature.
Battery charge. Engine coolant temperature.
Engine coolant temperature.
Hydraulic transmission oil temperature.
Gauges: Digital hour meter.
Fuel level.
Hydraulic oil level sight glass.
Indicator Lights: Engine pre-heat.
Hydraulic return filter blocked.
Hydraulic transmission filter blocked.
Cutterdeck drive switch off.
Parking brake engaged.
Transmission neutral.
'Work' mode active.

WEIGHT AND DIMENSIONS

Wheel Base:	1610 mm.
Working Width:	3640 mm.
Cutting Width:	3460 mm.
Transport Width:	1850 mm at 13mm height of cut.
Overall Length:	2930 mm.
Overall Height:	1570 mm.
Approx. Working Weight:	1800 kg less operator, no options fitted. (The exact weight depends on the cutterhead configuration).

RECOMMENDED LUBRICANTS AND HYDRAULIC FLUIDS

Grease Points: A good quality medium grease.

Engine: Refer - ENGINE OPERATORS MANUAL.

Hydraulic System:

Ambient Temperature Range		
$0 - 30^{\circ}C (32 - 86^{\circ}F)$	15 - 40 °C (59 - 104 °F)	
I S O viscosity grade 46 hydraulic oil.	I S O viscosity grade 68 hydraulic oil.	

Should you be in any doubt please contact your Hayter dealer. Using incorrect grades will cause premature wear of hydraulic components and invalidate warranty.

CUTTEDUEADS			
CUTTERNEADS			
	MK3 200mm Cutterhead	MK3 254mm Cutterhead	
Cutting Width:	762 mm.	762 mm.	
Cylinder Diameter:	200 mm.	254 mm.	
Cylinder Speed:	1050 rpm approx.	1050 rpm approx.	
Height of Cut:	12 - 80 mm.	12 - 80 mm.	
Number of Blades:	4, 6, 8, 10	4, 6	
Smooth Rear Roller:	Standard.	Standard.	
Smooth Front Roller:	Optional.	-	
Grooved Front Roller:	Optional.	-	
Configuration:	Fixed / Floating.	Fixed.	

SAFETY NOTICE

WARNING: PREVENT ACCIDENTS - Before operating the mower it is essential that;

- The operator reads and understands this manual.
- The operator platform latching mechanism is fully engaged and in good working order, refer - 'OPERATOR PLATFORM LATCHING MECHANISM'.
- The daily maintenance checks have been properly carried out and the turf mower is in good working order.
- The operator should wear safety clothing and eye protection. Failure to do so could result in risk to health and safety.
- The area where the equipment is to be used is inspected and all objects which may be thrown by the machine are removed.

Operate safely on slopes;

It is essential to follow safe working practices when working on slopes. In order to avoid potentially hazardous situations, it is essential that the operator understands and observes the relevant safety precautions listed in this manual, refer - 'SAFETY PRECAUTIONS'.

OPERATOR PRESENCE CONTROLS

Cutting Cylinder Drive Lockout: Drive to the cutting cylinders is only possible when the operator is seated. If the operator raises off the seat for a period of more than one second, a switch is activated and drive to the cutting cylinders is automatically disengaged. To re-engage drive to the cutting cylinders, the operator must return to the seat, then operate the cutterhead drive switch to the 'OFF' position before moving it back to the 'ON' position. If the operator rises off the seat for a brief moment during normal work, drive to the cutting cylinders is not affected.

The engine can only be started with the cutterhead drive switch in the 'OFF' position.

Engine Start Lockout: The engine can only be started when the forward/reverse travel pedal is released to the 'NEUTRAL' position, the cutterhead drive switch is in the 'OFF' position and the parking brake is engaged. When these circumstances are satisfied, switches are activated permitting the engine to be started.

Engine Run Interlock: Once the engine is started the operator must be seated before the parking brake is released for the engine to continue to run.

With the engine running and the machine moving with the travel pedal depressed, the engine will continue to run when the operator rises from the seat. If the travel pedal is then allowed to return to neutral the engine will cut out.

WARNING: PREVENT ACCIDENTS - Do not operate the turf mower if the operator presence controls are defective in any way. ALWAYS replace faulty parts and check that they function correctly before operating the mower.

IDENTIFICATION OF CONTROLS

- 1. Parking brake lever.
- 2. Lighting switch (supplied with lighting kit).
- 3. Warning beacon switch (supplied with beacon kit).
- 4. Hazard warning switch (supplied with lighting kit).
- 5. Cutterhead position controls.
- 6. Throttle control lever.
- 7. Ignition key.
- 8. Cutterhead drive switch.
- 9. Dip beam / main beam light switch (supplied with lighting kit).
- 10. Direction indicator switch (supplied with lighting kit).
- 11. Horn button.
- 12. Transmission oil filter indicator.
- 13. Oil pressure indicator.
- 14. Transmission temperature indicator.
- 15. Return oil filter indicator.
- 16. Battery warning indicator.
- 17. Engine temperature warning indicator.
- 18. Glow plug indicator.
- 19. Cutterhead drive off indicator.
- 20. Parking brake indicator.
- 21. Transmission neutral indicator.
- 22. Weight transfer control.
- 23. 'Work/Transport' mode switch.
- 24. Centre cutterhead transport latch.
- 25. LH front cutterhead transport latch.
- 26. RH front cutterhead transport latch.
- 27. Centre cutterhead transport latch.
- 28. LH wing unit transport latch.
- 29. RH wing unit transport latch.
- 30. Differential lock pedal.
- 31.Dual lift configuration switch.
- 32. Wash / wipe switch (supplied with cab kit).
- 33. Forward travel pedal.
- 34. Reverse travel pedal
- 54. Reverse travel pedal
- 35. Forward travel speed backstop lever.
- 36. Forward travel speed backstop cam.
- 37. Hour Meter





BRAKING SYSTEM

Parking Brake : Move the parking brake lever to its rear position to engage the parking brake. Do not operate the mower with the parking brake engaged.



WARNING : PREVENT ACCIDENTS - The parking brake operates on the front wheels only. Do not park the mower on a slope.

Service brakes : Service braking is achieved by the hydraulic transmission system. When the forward or reverse travel pedals are released or the engine speed reduced, service braking becomes effective and travel speed is automatically reduced. To increase the braking effect, push the transmission pedals into the neutral position.

WARNING : PREVENT ACCIDENTS - The service braking system will not hold the mower at a standstill. ALWAYS ensure the parking brake is engaged to park the mower at a standstill.

Emergency Braking : In the event of service brake failure, switch off the ignition to bring the mower to a standstill.



Parking Brake Engaged



▲ WARNING: PREVENT ACCIDENTS - Take care when operating the braking system. Remain seated and hold on to the steering wheel to prevent ejection from the mower caused by the front wheel brakes being applied suddenly when travelling.

THROTTLE CONTROL

cutting cylinder, position controls.

Operate the throttle control in a forward direction to increase engine speed.

Operate the throttle control in a rearward direction to reduce engine speed.

Note that the engine speed dictates the speed of the other functions, i.e. travel,

Engine Speed Fast Engine Speed Slow



TRAVEL

Forward travel: Depress the forward travel pedal to increase forward travel speed. Release the pedal to reduce speed.

Reverse travel: Depress the reverse travel pedal to increase reverse travel speed. Release the pedal to reduce speed.

Stop (Neutral): Release the forward and reverse travel pedals.







WORK/TRANSPORT MODES

WARNING : PREVENT ACCIDENTS - Ensure that the mode elected is appropriate to the mode of operation of the machine.

Select 'Work' mode when operating the mower in conditions of poor traction when maximum tractive performance is required. Selecting 'Work' mode will enable the use of the differential lock.

Select 'Transport' mode when operating the mower in conditions of good traction. For example when travelling on the public highway or mowing large, level, open areas. Selecting 'Transport' mode in these conditions will reduce transmission system wear and tear.

Differential lock is not available for use when 'Transport' mode is selected.



1.

2. Work Mode

1. Transport latch. 2. Safety lock.

TRANSPORT LATCHES

WARNING : PREVENT ACCIDENTS - ALWAYS raise the cutterheads to the transport position and secure with the transport latches and safety locks when travelling between work areas.

Front and Wing cutterhead transport latches:

Centre cutterhead transport latch:

WARNING : PREVENT ACCIDENTS - Stored energy devices are charged when the outer wing units are in the transport position. Always operate the relevant lift controls to provide hydraulic support for the cutterhead suspensions before attempting to release the transport latches.

DIFFERENTIAL LOCK

WARNING : PREVENT ACCIDENTS - Do not engage the differential lock at high speed. The turning circle will increase with the differential lock engaged.

The differential lock is effective only when 'Work' mode is selected. The differential lock operates in both 'forwards' and 'reverse' and can be engaged whilst the turf mower is travelling slowly. Engage the differential lock to prevent excessive wheel spin when the drive wheels lose traction. Engine power demand increases when the differential lock is engaged. Prevent excessive power requirements by operating with differential lock at SLOW speed.

Engaging differential lock: Depress the differential lock pedal.

Disengaging differential lock: Release the differential lock pedal.

TRAVEL CONTROL PEDALS

▲ WARNING: PREVENT ACCIDENTS - Ensure that the transmission control cable is securely fastened to the travel control pedal mechanism. Ensure that both the cable and pedals articulate freely through their full range of travel and that the mechanism freely returns to neutral when released.

WARNING: PREVENT ACCIDENTS - Ensure that the control cable is correctly routed underneath the operator platform such that it is clear of any obstructions and impediments to its operation.

This is of particular importance after the platform has been opened and subsequently closed following inspection maintenance operations.

Before operating the machine, ensure that there are no foreign objects or liquids on the platform or pedals - ALWAYS KEEP THE OPERATOR PLATFORM CLEAR/CLEAN.

FORWARD TRAVEL SPEED BACKSTOP LEVER

The backstop lever can be used to limit the movement of the forward pedal for accurate forward travel speed, and the clip rate required.

Operate the lever in a forward direction to increase the travel speed setting and in a rearward direction to decrease.

Note: This is not a cruise control device. Releasing the forward travel pedal will allow it to return to neutral.



WARNING: PREVENT ACCIDENTS - Never operate the mower without first checking that the operator platform latching mechanism is fully engaged and in good working order. Check behind the seat and ensure that the top of the platform is flush with the top of the fuel tank. Also check beneath the tool tray and ensure that the release lever is padlocked in the correct position.

IMPORTANT: PREVENT DAMAGE - Engage the parking brake and lower the cutterheads to the ground. Remove ignition key and close ignition cover before raising or lowering the platform.



Releasing the platform: Release and remove the tool tray from the left hand side of the platform. Release the padlock securing the locking latch handle with the key provided. Move the locking latch handle towards the front of the mower (position A) until the latch hooks clear the locking bar and raise the platform. The gas spring will provide assistance.

Securing the platform: Lower the platform carefully. The gas spring will provide assistance. Move the locking latch handle towards the front of the mower (position A) as the platform nears the fully lowered position. This will ensure that the latch hooks clear the locking bar. Fully lower the platform and move the locking handle towards the rear of the mower (position B) until the latch hooks fully engage the locking bar. Replace the padlock in order to secure the locking latch handle in place.



ADJUSTABLE STEERING COLUMN

→ WARNING: PREVENT ACCIDENTS - Before operating the mower, ensure that the steering column adjuster mechanism is in good working order and that the steering wheel is locked securely in position.

WARNING: PREVENT ACCIDENTS - Adjustment of the steering wheel and steering column should only be carried out when the mower is at a standstill with the parking brake engaged.

Adjusting the angle of inclination of the steering wheel: Move lever 'A' downwards to adjust the angle of steering wheel. Release the lever to lock the steering wheel in position.

Adjusting the length of the steering column: Move the lever 'A' upwards to adjust the length of the steering column. Release the lever to lock the steering column in position.

OPERATOR SEAT

WARNING: PREVENT ACCIDENTS - Before operating the mower ensure that the operator seat mechanisms are in good working order and that the seat is locked securely in position.

WARNING: PREVENT ACCIDENTS - Adjustment of the seat mechanisms should only be carried out when the mower is at a standstill with the parking brake engaged.

Fore/Aft Adjustment: Move lever 'B' upwards to adjust the Fore/Aft position of the seat. Release the lever to lock the seat in position.

Operator weight adjustment: Rotate handle 'C' clockwise as shown to increase suspension stiffness and counter-clockwise to decrease. Dial 'D' indicates when the optimum suspension adjustment has been set according to operator weight (kg).

Height adjustment: Manually lift the seat for incremental height adjustment. To lower lift the seat to beyond its highest setting, then allow it to drop to the lowest setting.

Backrest adjustment: Pull handle 'E' outwards to adjust the seat backrest angle. Release the handle to lock the seat backrest in position.







OPERATING THE MOWER

WARNING SYSTEMS

Engine coolant overheating warning : The engine coolant warning light illuminates and the horn is actuated.

Hydraulic oil overheating warning : The hydraulic oil warning light illuminates and the horn is actuated when the hydraulic oil in the reservoir exceeds 95°C approx.

Low battery charge warning : The battery charge warning light illuminates.

Low engine oil pressure warning light : The engine oil pressure warning light illuminates.

AUDIBLE WARNING HORN

Depress the horn button to provide an audible warning.

IMPORTANT : PREVENT DAMAGE - The horn is automatically actuated when an engine coolant or hydraulic oil overheat condition occurs. STOP the engine immediately and effect remedial action before restarting.









IGNITION KEY

- 0 = Engine off.
- I = Engine run / Auxiliary on.
- II = Engine pre-heat.
- III = Engine start.



WARNING : PREVENT ACCIDENTS - Always remove the ignition key when the mower is not in use.

IMPORTANT : PREVENT DAMAGE - Always fit the protective cap when the ignition key is removed to prevent ingress of dirt and moisture from damaging the mechanism.

ENGINE PRE-HEAT INDICATOR LIGHT

Turn the ignition key to position II. The engine pre-heat indicator light will illuminate. When the correct pre-heat temperature is achieved, the indicator light will switch off. When this condition is achieved, turn the ignition key to position III to start the engine.

IMPORTANT: PREVENT DAMAGE - Attempting to start a cold engine before the pre-heat indicator light switches off can cause unnecessary wear to the battery.

FUEL LEVEL GAUGE

Displays fuel tank level.



$$\begin{split} \mathbf{E} &= \mathbf{Empty.}\\ \mathbf{F} &= \mathbf{Full.} \end{split}$$

HOURMETER

Displays engine running hours.



OPERATING THE MOWER

TRANSMISSION NEUTRAL INDICATOR LIGHT Illuminates when the travel control pedal is in the neutral position and the ignition key is turned to position 'I'. Note: The parking brake must be engaged for the transmission neutral indicator light to illuminate. WS04 **CUTTERHEAD DRIVE SWITCH INDICATOR LIGHT** Illuminates when the cutterhead drive switch is in the 'off' position and the ignition key is turned to position 'I'. PARKING BRAKE INDICATOR LIGHT Illuminates when the parking brake is engaged and the ignition key is turned to position 'I'. HYDRAULIC RETURN FILTER INDICATOR LIGHT Illuminates when the return filter element is blocked. Note: The engine must be running for the hydraulic return filter indicator light to illuminate. The indicator light may illuminate briefly when the hydraulic oil is cold. HYDRAULIC TRANSMISSION FILTER INDICATOR LIGHT Illuminates when the transmission filter element is blocked. Note: The engine must be running for the hydraulic return filter indicator light to illuminate. The indicator light may illuminate briefly when the hydraulic oil is cold. **TRANSMISSION SYSTEM 'WORK' MODE INDICATOR LIGHT** Illuminates when the transmission system 'work' mode is selected and the ignition key turned to position 'I'

WS055

CUTTERHEAD POSITION CONTROL

The cutterheads may be raised or lowered using the bank of 3 lift control levers.

To lower the cutterheads, operate the lift control levers in a downward direction until locked in position 1. If the cutterhead drive switch is in the 'ON' position, the cylinder drive will engage when the cutterheads are approximately 300mm above ground level.

IMPORTANT: PREVENT DAMAGE - The lift control levers must be locked in position 1 while mowing. NEVER mow with the lift control levers in position 2 (neutral).

To raise the cutterheads, operate the lift control levers in an upward direction and hold in position 3. If the cutterhead drive switch is in the 'ON' position, the cylinder drive will disengage when the cutterheads are approximately 300mm above ground level. Release the lift control levers when the cutterheads are at the required height. The control levers will automatically return to position 2 (neutral).





^{3.} Raise

4. LH Wing or LH Wing+LH Front*

6. RH Wing or RH Wing+RH Front*

*Depending on which lift configuration is selected. Refer-Dual Lift Configuration Control.

DUAL LIFT CONFIGURATION CONTROL

The dual lift configuration control function enables the lift controls to be used in two ways as follows:

Five gang mode, lift configuration (1):

Control switch in position 1 LH lift lever (3) controls LH wing cutterhead Centre lift lever (4) controls LH front + centre + RH front cutterheads RH lift lever (5) controls RH wing cutterhead

Three/five gang mode, lift configuration (2):

Control switch in position 2 LH lift lever (3) controls LH wing + LH front cutterheads Centre lift lever (4) controls centre cutterhead RH lift lever (5) controls RH wing + RH front cutterheads

With the LH and RH wing cutterheads locked in the fully raised transport position.

Control switch in position 2 LH lift lever (3) controls LH front cutterhead Centre lift lever (4) controls centre cutterhead RH lift lever (5) controls RH front cutterhead





953910KG141004

^{5.} Centre+LH/RH Front or Centre*
The cutterhead drive can be engaged only when the operator is seated correctly, refer - OPERATOR PRESENCE CONTROLS.

Briefly operate the lift control levers to raise the cutterheads, thereby removing the cutterhead suspension deadweights and wing units stored energy reaction from the transport latch mechanisms.

Release the cutterhead latches. Operate the cutterhead position controls to the down / float position and lower all cutterheads to the ground ready for mowing.

Forward rotation cutterhead drive engagement : Operate the cutterhead drive switch to the 'Forward' position.

Reverse rotation cutterhead drive engagement : Operate the cutterhead drive switch to the 'Reverse' position.

To disengage all cutterhead drives : Operate the cutterhead drive switch to the 'Off' position.

WARNING : PREVENT ACCIDENTS - Refer OPERATOR PRESENCE CONTROLS for additional information.



^{1.} Forward.

^{2.} Off.

^{3.} Reverse.

WEIGHT TRANSFER / TRACTION ASSISTANCE

A variable hydraulic weight transfer system is provided for improving tyre grip with the grass surface - **'Traction Assistance'.**

Hydraulic pressure in the cutterhead lift system provides a lifting force which reduces cutterhead weight on the ground and transfers the weight as a downward force onto the mower's tyres. This action is known as **'Weight Transfer'**.

To engage weight transfer: The amount of weight transfer can be varied to suit operating conditions by rotating the weight transfer hand wheel as follows;

Release the lock wheel underneath the hand wheel 1/2 turn anti-clockwise and hold.

Rotate the hand wheel:

Anti-clockwise to reduce weight transfer.Clockwise to increase weight transfer.

Tighten the lock wheel.



STARTING THE ENGINE

WARNING: PREVENT ACCIDENTS - Before starting the engine check that ;

- The area is clear of bystanders.
- The cutterhead drive is disengaged.
- The parking brake is engaged.
- The travel control pedal is in neutral.
- You have read and understood the SAFETY PRECAUTIONS section in this manual.

This machine is fitted with an Engine Start Lockout, refer - OPERATOR PRESENCE CONTROLS.

OPERATING THE MOWER

STARTING THE ENGINE

Continued.

Starting a cold engine: Set the throttle control lever to approximately 70% full throttle.

Turn the ignition key to the 'ignition on' position "I" and check that the engine oil pressure and battery charge warning lights illuminate.

Turn the ignition key to the 'preheat' position "II" and hold until the engine pre-heat indicator light goes out.

Turn the ignition key to the 'start' position "III" and hold to crank the engine. As soon as the engine starts release the ignition key back to position 'I'.



WARNING: PREVENT DAMAGE - When the engine is operating all warning lights should be 'off'. If a warning light illuminates, stop the engine immediately and have the fault rectified before restarting.

Starting a warm engine: Engine pre-heating is unnecessary when restarting an engine which has been stopped for a few minutes. Follow the cold engine starting procedure without holding in 'preheat' position "II".

STOPPING THE ENGINE

To stop the engine: Turn the ignition key to position '0'.



WARNING: PREVENT ACCIDENTS - If the engine fails to stop when the ignition key is turned to 'O' operate the fuel control lever to the engine 'stop' position as shown. Keep hands clear of moving objects and hot engine parts whilst the engine is running.



GENERAL OPERATING HINTS

- 1. The rotational speed of the cutting cylinders should always be kept as high as possible in order to maintain the highest quality of cut. This in turn requires that the engine speed be kept as high as possible.
- 2. The quality of cut will deteriorate if the forward speed is excessive. Always balance the quality of cut with the workrate required and set the forward speed accordingly.
- 3. Never let the engine labour. Reduce the forward speed or increase the height of cut. Check that the cutting cylinders are not in heavy contact with their bottom blades.
- 4. Regularly check the cutting cylinder to bottom blade adjustment every few hours even though cutting performance appears to be satisfactory. Heavy contact or excessive clearances between the cylinder and bottom blades will cause rapid wear to take place.
- 5. Always disengage the cutterhead drive when travelling across ungrassed areas. Grass will lubricate the cutting edges whilst mowing. Excessive heat will build up if the cutting cylinders are run when not mowing and this will cause rapid wear to take place. For this reason it is also wise to reduce cutting cylinder speed when mowing lightly grassed areas or when the grass is dry.
- 6. Cutting performance is best when cutting against the lie of the grass. In order to take advantage of this fact, the operator should attempt to alternate the direction of mowing between cuts.
- 7. Take care not to leave uncut strips of grass at the overlap points between adjacent cutterheads, by avoiding tight turns.
- 8. It is generally wise to remove rear roller scrapers where conditions allow, as optimum grass discharge is achieved without them. Scrapers should be refitted when conditions are such that mud and grass start to build up on the rollers. When refitting the scraper wires, care must be taken to ensure that they are correctly tensioned, refer MAINTENANCE EVERY 50 HOURS.

WARNING : PREVENT ACCIDENTS - Take care when travelling over obstacles such as roadside kerbs. ALWAYS travel at slow speed over obstacles to prevent damage to the machines tyres, wheels and steering system. Ensure that tyres are inflated to the recommended pressures.

UNBLOCKING CUTTING CYLINDERS

WARNING: PREVENT ACCIDENTS - Before attempting to clear any blockage from the cutting cylinders on this machines ensure all of the following:

- Stop the machine on level ground.
- Apply the parking brake and disengage all drives.
- Lower the cutting units to the ground or securely lock in the designated transport positions.
- Stop the engine and remove the ignition key to isolate all power sources and check that they are stopped.
- Release all stored energy devices.
- Check that all moving parts are stationary.

NEVER ATTEMPT TO ROTATE THE CUTTING CYLINDERS BY HAND as there may be some residual pressure in the hydraulic system which could cause injury through sudden movement of the cylinder(s) when the blockage is released.

Always wear protective gloves and use a suitable strong wooden instrument. Ensure that this will fit between the blades and through the cylinder and is long enough to provide sufficient leverage to release the blockage and any residual hydraulic system pressure by rotating or rocking the cylinder. Make sure that the wooden instrument is properly supported in the cylinder and avoid the use of excessive force to prevent damage.

Only when the cylinder has a degree of free movement should the source of the blockage be removed. Ensure that the wooden instrument is also removed before restarting the power source.

If the cylinder requires readjustment or repair, refer - MAINTENANCE - Cutterheads.

CENTRE CUTTERHEAD HEIGHT OF CUT CORRECTION ADJUSTMENT

With all cutterheads set at the same HOC via the indicator rings, it may be noticeable that the centre unit produces a higher cut finish compared to the wing units. The centre unit is pulled and the wing units are pushed this presents marginally different cutting angles relative to the ground. The amount of HOC variation, which results from this will be influenced by the terrain but satisfactory results can usually be achieved by setting the centre cutterhead HOC indicator ring lower than the wing unit settings.

CUTTERHEAD GENERAL INFORMATION

The mower is designed to be used with MK3 200mm fixed or floating cutterheads or MK3 254mm fixed cutterheads.

It is essential that the relationship between the bottom blades and the cutting cylinders are kept in good adjustment and that cutting edges are kept sharp to ensure good cutting performance, minimum power consumption and prolonged life for the cutting edges, refer - MAINTENANCE - Cutterheads.

Fixed MK3 200mm/254mm Cutterheads: When the mower is set up with fixed cutterheads the height of cut is gauged by the rear roller and the cutterhead is allowed to pivot laterally to follow ground contours. This arrangement is normally recommended for general mowing requirements.

(MK3 200mm Cutterhead illustrated).

Floating MK3 200mm Cutterheads: When the mower is set up with floating cutterheads the height of cut is gauged by the front and rear rollers. The cutterhead is allowed to pivot fore and aft as well as laterally. This arrangement is recommended for high quality grass areas and performs well where grass is short and the ground undulations are severe.

Grass deflectors: The rear grass deflectors must always be correctly fitted. The deflectors should be set as low as possible to deflect grass discharge to the ground.

WARNING: PREVENT ACCIDENTS - Always ensure that the grass deflectors are angled below horizontal level, otherwise risks to health and safety may result.

Height of cut gauge: An optional height of cut gauge is available to assist in achieving accurate cut height settings. It is suitable for both fixed and floating cutterheads.



Hayter Part No. 63-01-760



OPERATING THE MOWER

MK3 200mm FIXED CUTTERHEAD

Height of cut adjustment: The height of cut is gauged by the position of the rear roller.

Turn the adjusting nut assembly 'B' both ends clockwise to decrease height of cut 'E' or anti-clockwise to increase height of cut 'E'.

IMPORTANT: PREVENT DAMAGE - Do not attempt to unlock the nut assemblies, 'B'.

Ensure that all cutterheads are set at the same height of cut by either referring to the indicator rings 'C' or by using a height of cut gauge across the full width of each cutterhead for greater accuracy as shown.



MK3 254mm FIXED CUTTERHEAD

Height of cut adjustment: The height of cut is gauged by the position of the rear roller.

Turn the adjusting nut assembly 'B' both ends clockwise to decrease height of cut 'E' or anti-clockwise to increase height of cut 'E'.

IMPORTANT: PREVENT DAMAGE - Do not attempt to unlock the nut assemblies 'B'.

Ensure that all cutterheads are set at the same height of cut by either referring to the indicator rings 'C' or by using a height of cut gauge across the full width of each cutterhead for greater accuracy as shown.





MK3 200mm FLOATING CUTTERHEAD

Pivot knuckle fixing: Secure the bolt in the rear "floating" slot position 'A' as shown.

Height of cut adjustment: The height of cut is gauged by the

To alter the rear roller position, turn the adjusting nut assembly 'B' both ends clockwise to decrease height of cut 'E' or anti-clockwise



IMPORTANT: PREVENT DAMAGE - Do not attempt to unlock the nut assemblies, 'B'.

To alter the front roller position loosen bolts 'F'. Release and turn adjusting nuts 'D' both ends clockwise to increase the height of cut or anti-clockwise to decrease the height of cut.

Ensure that all cutterheads are set at the same height of cut by referring to the indicator rings 'C' or use the height of cut gauge across the full width of each cutterhead as shown.

Tighten nuts 'D' and 'F' both ends.

position of the front and rear rollers.

to increase height of cut 'E'.



MAINTENANCE

WARNING : PREVENT ACCIDENTS - When carrying out maintenance procedures it is essential that: - The engine is switched off and the ignition key removed.

- The parking brake is applied.
- There is no pressure in the hydraulic system.
- The cutterheads are fully down on the ground.
- The safety precautions in this manual have been read and understood.

▲ WARNING : PREVENT ACCIDENTS - Stored energy devices and systems are used on the T424 mower. It is essential that this stored energy is safely dissipated before maintenance or other service or operations are performed on these devices and systems on the machine.

Dissipate stored energy as described below:

Hydraulics:

Transmission System - Ensure that the machine is on level ground, engage the parking brake and switch the engine off. Depress the forward and reverse travel pedals alternatively several times.

Cutterhead Lift System - Lower the cutterheads to the ground and switch the engine off. Raise and lower the lift levers several times leaving them in the 'down/float' position.

Cutterhead Drive System - Lower the cutterheads to the ground with the cutterhead drive switch in the 'off' position and switch the engine off.

Wing Cutterhead Springs - Lower the wing cutterheads to the ground.

Operator Platform Gas Spring - Raise the platform fully.

IMPORTANT: PREVENT DAMAGE: Regular maintenance is essential for the continued safe operation of the machine. Correct servicing will prolong the working life of the machine and safeguard the "Hayter Warranty". Always fit genuine 'Hayter service parts' as these are accurately matched to the required duty.

Dirt and contamination are the enemies of any hydraulic system. When carrying out maintenance procedures on the hydraulic system always ensure that the work area and the components are thoroughly clean before, during and after refitting. Ensure that all open hydraulic lines and ports, etc. are plugged during maintenance procedures.

The recommended service intervals are based on normal operating conditions. Severe or unusual conditions will necessitate shorter service intervals.

ALWAYS grease pivot points immediately after pressure washing or steam cleaning, refer - EVERY 50 HOURS, GREASE PIVOT POINTS.

Â

WARNING: PREVENT ACCIDENTS - The engine, transmission oil and hydraulic systems will be hot after machine use. Allow the systems to cool before working on the machine, particularly before working on the engine or when changing oil or oil filters.

MAINTENANCE

MAINTENANCE

Continued. -

WARNING : PREVENT ACCIDENTS - Use hazardous substances carefully. The following fluids are identified as being hazardous;

Low

Low

Low

High

Medium

Substances Assessed risk

Diesel oil Lubricating oil Hydraulic oil Grease Low Anti - freeze Battery acid

When using any of the above fluids it is recommended that eye protection and gloves are worn and that care is taken to prevent spillage.

Avoid contact with skin; wash off spillage with soap and water.

In the case of battery acid drench with water and seek medical attention. Remove any contaminated clothing and clean thoroughly before use.

Avoid contact with eyes; wash with running water and seek medical attention if symptoms persist. In the case of battery acid, seek medical attention immediately.

Avoid ingestion; if swallowed seek medical attention.

Keep clear of high pressure fluid escaping from pinholes, cracked connections etc. High pressure fluid can penetrate the skin. Seek immediate medical advice if any fluid is injected into the skin. Always use a piece of cardboard or paper when searching for leaks.

CAUTION: PREVENT ENVIRONMENTAL DAMAGE - Dispose of hazardous substances correctly.

When disposing of hazardous waste products, take them to an authorised disposal site. Waste products must not be allowed to contaminate surface water, drains or sewerage systems.

CAUTION: PREVENT ENVIRONMENTAL DAMAGE - Dispose of a used battery correctly. The battery has a separate collection mark. This means that the battery must not be disposed of with general waste. It must be taken to an authorised disposal site



ENGINE

ENGINE

Refer to the Engine Operator's Manual for maintenance information.

RUNNING IN PERIOD

Check wheel nut torque settings:

During first 50 hours of use and in addition to routine checks. Refer - DAILY AND BEFORE USE. Check wheel nut torques twice a day.

Front axle wheel nut torque setting - 200 Nm.

Rear axle wheel nut torque setting - 54 Nm.

RUNNING IN PERIOD - AT FIRST 50 HOURS

Change the transmission oil filter: Unscrew and remove the bottom of the transmission oil filter housing. Withdraw the filter element and discard. Refit a new filter element (Hayter part no. 924708) and replace the housing.



RUNNING IN PERIOD - AT FIRST 50 HOURS

Continued. –

Change the hydraulic oil return filter: Unscrew and remove the return filter canister and discard. Refit a new filter canister (Hayter part no. 924692).



DAILY AND BEFORE USE

Check engine oil level: If the oil level is below the upper mark on the dipstick, top up with the correct grade of engine oil to the required level, refer - ENGINE MANUAL.

Check engine radiator coolant level:

WARNING: PREVENT ACCIDENTS - Avoid scalding. DO NOT remove the radiator filler cap unless the engine is cool. Turn the filler cap slowly to release system pressure before removing the filler cap completely.

Keep coolant between "Full" and "Low" when engine is cold at all times.



Cleaning the air cleaner: Remove the air filter and tap it repeatedly with the palm of the hand to remove dust particles. DO NOT damage the air filter by hitting it against a hard object. Inspect the air filter for signs of damage.

IMPORTANT: PREVENT DAMAGE - Always replace a damaged air filter or damage to the engine will result. NEVER run the engine without the air filter correctly fitted.

Clean the inside of the cleaner dust bowl with a dry cloth and check that the dust boot is unobstructed.

Replace the air filter and assemble the dust bowl, with the dust boot facing below horizontal level.



S.

Air filter
 Dust bowl
 Dust boot



MAINTENANCE

DAILY AND BEFORE USE

Continued.

Clean the radiator screen: Clean the radiator screen. Check the oil cooler and engine radiator grille for debris and clean as necessary, using a brush or airline. If water is used, these areas should be allowed to dry out completely before use.

IMPORTANT: PREVENT DAMAGE - NEVER operate the mower with a damaged radiator screen or engine damage could result from overheating. Clean the radiator screen more regularly in dry conditions.



- 1P953C14A
- 1. Radiator screen.
- 2. Oil cooler
- 3. Radiator

Check fuel level: Top up as necessary with diesel fuel. Always top up before storing the mower over-night to prevent water condensation from contaminating the fuel.





WARNING : PREVENT DAMAGE - If there is noticeable hydraulic oil loss, the leakage source must be rectified before using the mower. NEVER operate the mower when the hydraulic oil level is below the bottom mark on the sight level gauge. NEVER operate the mower with contaminated oil.



- 1. Sight level gauge
- 2. Oil tank
- 3. Oil filler cap.
- 4. Fuel tank.

 WARNING: PREVENT ACCIDENTS - ALWAYS replace worn or damaged limmediately. DO NOT operate the mower with defective hydraulic hose-lines. Inspect the mower for signs of oil leakage. Tighten fittings or replace seals as req Check fasteners: Check that all nuts, bolts and pins are secured correctly in place and in good condition. Check safety devices: WARNING - PREVENT ACCIDENTS : Ensure that all safety guards, shields and protective devices are securely in place and in good working order. Check tyres: Examine the condition of the tyres and check that inflation pressures are correctly set, refer - SPECIFICATIONS. WARNING - PREVENT ACCIDENTS : Ensure that damaged tyres are replaced. Ensure that tyre tread depths comply with road traffic regulations. Grease all rear axle components including the centre axle beam pivot pin, both steering yokes and track rod ball joints, refer -EVERY 50 HOURS - Grease pivot points. Check cutterheads: Examine the condition of the cutting cylinders and bottom of the cutting cylinders and bo	hydraulic hose-line s. uired.
Inspect the mower for signs of oil leakage. Tighten fittings or replace seals as req Check fasteners: Check that all nuts, bolts and pins are secured correctly in place and in good condition. Check safety devices: WARNING - PREVENT ACCIDENTS : Ensure that all safety guards, shields and protective devices are securely in place and in good working order. Check tyres: Examine the condition of the tyres and check that inflation pressures are correctly set, refer - SPECIFICATIONS. WARNING - PREVENT ACCIDENTS : Ensure that damaged tyres are replaced. Ensure that tyre tread depths comply with road traffic regulations. Grease all rear axle components including the centre axle beam pivot pin, both steering yokes and track rod ball joints, refer -EVERY 50 HOURS - Grease pivot points. Check cutterheads: Examine the condition of the cutting cylinders and botto	uired.
 Check fasteners: Check that all nuts, bolts and pins are secured correctly in place and in good condition. Check safety devices: WARNING - PREVENT ACCIDENTS : Ensure that all safety guards, shields and protective devices are securely in place and in good working order. Check tyres: Examine the condition of the tyres and check that inflation pressures are correctly set, refer - SPECIFICATIONS. WARNING - PREVENT ACCIDENTS : Ensure that damaged tyres are replaced. Ensure that tyre tread depths comply with road traffic regulations. Grease all rear axle components including the centre axle beam pivot pin, both steering yokes and track rod ball joints, refer -EVERY 50 HOURS - Grease pivot points. Check cutterheads: Examine the condition of the cutting cylinders and bottom of the cutterheads: Examine the condition of the cutting cylinders and bottom of the cutterheads: Examine the condition of the cutting cylinders and bottom of the cutterheads: Examine the condition of the cutting cylinders and bottom of the cutterheads: Examine the condition of the cutterheads: Check cutterheads: Examine the condition of the cutting cylinders and bottom of the cutterheads: Examine the condition of the cutterheads: Check cutterheads: Examine the condition of the cutterhead cutterheads: Check cutterheads: Examine the condition of the cutterhead cutterheads: Check c	
Check safety devices: WARNING - PREVENT ACCIDENTS : Ensure that all safety guards, shields and protective devices are securely in place and in good working order. Check tyres: Examine the condition of the tyres and check that inflation pressures are correctly set, refer - SPECIFICATIONS. WARNING - PREVENT ACCIDENTS : Ensure that damaged tyres are replaced. Ensure that tyre tread depths comply with road traffic regulations. Grease all rear axle components including the centre axle beam pivot pin, both steering yokes and track rod ball joints, refer -EVERY 50 HOURS - Grease pivot points. Check cutterheads: Examine the condition of the cutting cylinders and bottom	
 WARNING - PREVENT ACCIDENTS : Ensure that all safety guards, shields and protective devices are securely in place and in good working order. Check tyres: Examine the condition of the tyres and check that inflation pressures are correctly set, refer - SPECIFICATIONS. WARNING - PREVENT ACCIDENTS : Ensure that damaged tyres are replaced. Ensure that tyre tread depths comply with road traffic regulations. Grease all rear axle components including the centre axle beam pivot pin, both steering yokes and track rod ball joints, refer -EVERY 50 HOURS - Grease pivot points. Check cutterheads: Examine the condition of the cutting cylinders and bottom 	
 Check tyres: Examine the condition of the tyres and check that inflation pressures are correctly set, refer - SPECIFICATIONS. WARNING - PREVENT ACCIDENTS : Ensure that damaged tyres are replaced. Ensure that tyre tread depths comply with road traffic regulations. Grease all rear axle components including the centre axle beam pivot pin, both steering yokes and track rod ball joints, refer -EVERY 50 HOURS - Grease pivot points. Check cutterheads: Examine the condition of the cutting cylinders and bottom 	
 WARNING - PREVENT ACCIDENTS : Ensure that damaged tyres are replaced. Ensure that tyre tread depths comply with road traffic regulations. Grease all rear axle components including the centre axle beam pivot pin, both steering yokes and track rod ball joints, refer -EVERY 50 HOURS - Grease pivot points. Check cutterheads: Examine the condition of the cutting cylinders and bottom 	
Grease all rear axle components including the centre axle beam pivot pin, both steering yokes and track rod ball joints, refer -EVERY 50 HOURS - Grease pivot points.	
Check cutterheads: Examine the condition of the cutting cylinders and botto	
necessary, refer - MAINTENANCE - CUTTERHEAD CYLINDER TO ADJUSTMENT.	m blades. Adjust a BOTTOM BLADI
Grease all cutterhead rollers with a good quality medium grade grease and ensure is injected such that clean grease is seen to escape from the roller end caps, refer- EVERY 50 HOURS.	that sufficient greas MAINTENANCE
If no grease can be seen escaping from a roller end cap. It can be assumed that the resulting in the roller shell being filled with grease.	e rear seal has failed
Note: Care should be taken if an industrial power greaser is used as this may the bearing sealing arrangement.	result in damage to
Check forward/reverse travel pedal action: With the engine switched 'off', opereverse travel pedals through the full range of articulation and ensure that the mech to the neutral position.	erate the forward and nanism returns freely

DAILY AND BEFORE USE

Continued. -

Check operator presence controls:

Â

WARNING : PREVENT ACCIDENTS - Keep bystanders away when checking operator presence control interlock switches. DO NOT use the mower unless the operator presence controls work correctly as described below. If difficulties arise, consult your "Hayter dealer".

Operator presence seat switch: Sit on the operator seat and start the engine. Lower the cutterheads to the ground and engage the cutter drive in the forward direction. Rise from the operators seat and check that the cutting cylinders come to a stop after an initial 0.5 to 1 second delay. Repeat with the cutting cylinders running in reverse.

Cutter drive interlock switch: Stop the mower engine. Operate the cutter drive switch to the **'off'** position and turn the ignition key to position **'I'**. The cutterhead drive switch indicator light should illuminate. Refer - OPERATING THE MOWER.

Operate the switch to the **'forward'** position. The indicator light should go out and the engine should not start when the ignition key is turned. Repeat for the **'reverse'** position.

Parking brake interlock switch: Stop the engine. Engage the parking brake and turn the ignition key to position **'I'.** The parking brake indicator light should illuminate. Refer - OPERATING THE MOWER.

Disengage the parking brake. The indicator light should go out and the engine should not start when the ignition key is turned.

Transmission neutral interlock switch: Stop the mower engine and remove the foot from the forward/reverse travel pedals. Turn the ignition key to position 'I' and the transmission neutral indicator light should illuminate. Application of light pedal pressure in a forward and reverse direction should cause the indicator light to go out. Take extreme care to ensure that the area around the mower is clear before checking that the engine will not start under this condition.

EVERY 50 HOURS

Perform routine checks : Refer - DAILY BEFORE USE.

Check cutterhead roller bearing adjustment:

IMPORTANT : PREVENT DAMAGE - It is essential that the cutterhead roller bearings are kept in good adjustment in order to ensure maximum working life. If end float is allowed to become excessive, premature bearing failure will result.

Grip the roller and move from side to side and up and down. If excessive movement is detected, proceed as follows:

Carefully tighten nuts 'A' at each end of the roller with the spanner provided, just sufficiently to remove any end float.

Note: The roller should still rotate freely after adjustment. Overtightening of nuts 'A' could lead to premature bearing failure.

Check cutterhead rear roller scraper wire tension:

It is important that the scraper wires are correctly tensioned so as to ensure correct operation and maximum working life. Carefully tighten the scraper wire retaining nuts 'B' so as to just remove any slack from the scraper wires and then tighten nuts 'B' a further four full turns to correctly tension the wires.

IMPORTANT: PREVENT DAMAGE - Do not over tighten the scraper wires.

Check wheel nut torque settings:

Front axle wheel nut torque setting - 200Nm.

Rear axle wheel nut torque setting - 54 Nm.



D.

MAINTENANCE



EVERY 250 HOURS

Perform routine checks : Refer - DAILY BEFORE USE. - EVERY 50 HOURS.

Check battery condition :

WARNING : PREVENT ACCIDENTS - Explosive gases are produced by the battery. Work in a well ventilated area, away from all sources of ignition.

Battery fluids are corrosive. Take care to avoid contact with the skin or eyes. In the event of a spillage, drench the affected area with water. If the eyes are affected, seek medical attention. Remove any contaminated clothing and clean thoroughly before use.

When removing the battery, always disconnect the negative (-) cable first.

When replacing the battery, always connect the negative (-) cable last.

Remove the tool tray to gain access to the battery. Remove any corrosion from the battery terminals using a wire brush and apply petroleum jelly to the terminals to prevent further corrosion. Clean the battery compartment.

Under normal operating conditions the battery will not require any further attention. If the machine has been subject to continuous use under high ambient temperature conditions, the battery electrolyte may require topping up. Remove the cell covers and top up with distilled water to a height 15mm below the top of the battery. Replace the cell covers.

IMPORTANT : PREVENT DAMAGE - Check the condition of the battery cables. Replace cables showing signs of wear or damage and tighten any loose connections as necessary.



Visually inspect transmission control cable and operating mechanism:

Check the condition and security of the cable and operating mechanism at the travel control pedals and transmission pump ends.

- Remove build up of dirt, grit and other deposits.
- Ensure that the ball joints are securely anchored and check that mounting brackets and cable anchors are tight and free from cracks.



- Inspect end fittings for wear, corrosion, broken springs and replace if necessary.
- Ensure that the rubber seals are correctly located and in good condition.
- Ensure that the articulating sleeves supporting the inner cable are in good condition and firmly attached to the outer cable assembly at the crimped connections. If there are any signs of cracking or detachment fit new cable immediately.
- Check that sleeves, rods and inner cable are free from bends, kinks and other damage. If there are any signs of such failure, fit a new cable immediately.
- Check the condition of the neutralising device and replace if worn.
- With the engine switched 'Off', operate the pedal controls through the entire range and ensure that the mechanism moves smoothly and freely to the neutral position without 'Sticking' or 'Hanging up'.

1.55

EVERY 500 HOURS

Perform routine checks : refer - DAILY BEFORE USE. - EVERY 50 HOURS. - EVERY 250 HOURS.

Thoroughly clean the machine:

IMPORTANT: PREVENT DAMAGE - Keep water away from electrical components. Use a dry cloth or brush to clean such areas.

Service the hydraulic system : This procedure is best carried out when the hydraulic oil is warm (not hot). Lower the cutterheads to the ground and drain the hydraulic system by removing the hydraulic tank drain plug. Remove the oil tank filler flange to gain access to the suction strainer. Unscrew and remove the strainer and clean with paraffin or petrol before replacing. Renew the strainer if there are any signs of damage.

Remove the oil filler cap strainer and clean before replacing. Renew the strainer if there are any signs of damage.

Renew the return line oil filter element, refer - RUNNING IN PERIOD AT FIRST 50 HOURS.

Renew the transmission oil filter element, refer - RUNNING IN PERIOD AT FIRST 50 HOURS.

Replace the drain plug and refill the hydraulic tank with fresh clean hydraulic oil of the recommended grade, refer - SPECIFICATIONS.

Run the machine and operate all hydraulic systems until the hydraulic oil is warm. Recheck the oil level and top up as necessary to the upper mark on the sight level gauge.



MAINTENANCE

	ontinueu.	
new the engine air cleaner filter: (ses. Replace any hose which is damag IGINE MANUAL.	Check the condition of the air cleaner ged and tighten the connections, refer -	ENGINE
new the engine fuel filter element:	Refer - ENGINE MANUAL.	ENGINE
eck electrical system: Inspect all ele corroded. Spray a good quality wate	ectrical connections and cables and replace a er inhibitor on to exposed connections to pre	ny which are damaged vent moisture ingress.
eels must be correctly aligned to 'toe	e - in' by 3 - 8mm.	1 ,
the rear wheels in the straight ahea ewalls and the rear sidewalls at the w set 3 - 8mm less than the distance be	ad position. Measure and compare the distance between the distance between the tween the rear sidewalls.	ance between the front ne front sidewalls must

To adjust the alignment of the rear wheels, first back off the left hand and right hand locknuts on the track rod assembly. (Left hand locknut is a left hand thread). Rotate the track rod to achieve the correct 'toe - in' as described above and tighten the locknuts securely.

EVERY 500 HOURS

Continued. -

Check the engine overheat warning system: Turn the ignition key to the 'ignition on' position 'I'. Disconnect the red/grey wire terminal from the engine temperature switch and touch the metal terminal of this wire onto a suitable earth point, ensuring that the metal surfaces make good contact. The horn will sound and the engine coolant temperature warning light will illuminate to confirm correct operation. If the system is faulty, make repairs before operating the mower.



Check the hydraulic oil overheat warning system: Turn the ignition key to the 'ignition on' position 'I'. Disconnect the red/blue wire terminal from the hydraulic tank temperature switch and touch the metal terminal of the wire onto a suitable earth point, ensuring that the metal surfaces make good contact. The horn will sound and the hydraulic oil temperature warning light will illuminate to confirm correct operation. If the system is faulty, make repairs before operating the mower.



CUTTERHEAD CYLINDER TO BOTTOM BLADE ADJUSTMENT

IMPORTANT : PREVENT DAMAGE - It is essential that the relationship between the bottom blades and the cutting cylinders is kept in good adjustment in order to ensure good cutting performance, minimum power consumption and prolonged life for the cutting edges.

Carry out the following procedure before commencing work and re-check the settings every few hours.

Check that the cutting cylinder is correctly set to the bottom blade by holding a thin piece of paper between the cutting cylinder and the bottom blade as shown. Carefully rotate the cylinder as shown and check that the paper is cut cleanly at all points along the length of the blade. Hold the paper at 90 degrees (right angles) to the bottom blade to obtain the correct cutting action.

WARNING: PREVENT ACCIDENTS - Ensure that people are clear of the cutting cylinders as rotation of one may cause others to rotate.

If adjustment is necessary proceed as follows;

Release nut 'A' 1/4 turn both ends.

Turn handwheel 'B' each end alternately whilst rotating the cutting cylinder backwards until the bottom blade is in 'fleeting' contact with the cylinder along its entire length. Re-check the cutting action along the length of the bottom blade using a thin piece of paper making marginal adjustments as necessary.

Tighten nut 'A' both ends.

If it is impossible to obtain a good clean paper cut across the entire length of the bottom blade it will be necessary to carry out the backlapping procedure to reprocess the cutting edges. In severe cases it will be necessary to regrind the cutting cylinder and the bottom blade, refer - BACKLAPPING / GRINDING.

Do not be tempted to over-adjust causing heavy contact between the cylinder and bottom blade as this will cause very rapid uneven wear to take place, leading to tramlining and waviness of the cutting edges. The frictional losses will be high and a significant amount of power will be absorbed thus reducing the power available for cutting. The heating effect due to friction will cause excessive expansion to take place which will further aggravate the situation by increasing the contact pressure.

If the cutterheads are allowed to operate for more than a few hours without adjustment the running wear will eventually cause the cylinder to run out of contact with the bottom blade. At this stage very rapid rounding of the cutting edges will occur as grass and abrasive particles pass through the clearance between the blades.

Lack of attention to adjustment can therefore be foolhardy as maintenance costs will escalate. Quality of cut will also be seriously affected as will the health and growth of the grass.

An experienced operator will notice when a cutterhead starts to go out of adjustment, when the grass ceases to be cut cleanly and the cut ends become ragged.



1.59

CUTTERHEAD BACKLAPPING

This process is recommended for restoring the sharp cutting edges to cylinders and bottom blades which are essential for good quality grass cutting.

This process can only deal with a small amount of metal removal to restore the cutting edges. If the blade edges are seriously worn or damaged it will be necessary to remove the component parts and have them reground.

The backlapping process:

- 1. Check that the mower engine is switched off and the parking brake applied.
- 2. Adjust the cutting cylinders to the bottom blades to obtain 'fleeting contact'.
- 3. Apply a medium grade detergent based carborundum paste to the cutting edges of the cylinders with a long handled brush.

80 Grade Carbort	80 Grade Carborundum paste	
	Hayter Part No:	
0,45 kg	63-07-088	
11,25 kg	63-07-086	

- 4. Ensure that the area surrounding the cutterheads is clear of people and keep hands and feet clear of the cutting cylinders during the period when the mower engine is running.
- 5. Sit on the operator seat, start the mower engine and set the engine speed at idle.
- 6. Operate the cutterhead drive switch to the 'reverse/backlap' position for a period of time and listen to the grinding action .
- 7. Operate the cutterhead drive switch to the 'off' position and switch off the mower engine when the grinding action has stopped.
- 8. Thoroughly clean the blade edges and adjust the cutting cylinders to the bottom blades. Check that a thin piece of paper can be cut cleanly at all points along the cutting edges while rotating the cylinders by hand.
- 9. If further backlapping is necessary repeat steps 2 to 8.
- 10. Thoroughly remove and wash off all traces of the carborundum paste from the cylinders and bottom blades.



CUTTERHEAD GRINDING

It will be necessary to carry out a grinding operation to correct cylinder spiral edges or bottom blade edges which have become excessively rounded or distorted. Bottom blades which are nearing the end of their wear life should be replaced. The new blades should be ground on their holders prior to fitting, refer - CUTTERHEAD BOTTOM BLADE REPLACEMENT. When grinding operations are necessary it is essential that both cylinders and bottom blades are ground at the same time. The only exception to this rule is when a new cylinder is fitted in which case it is only necessary to grind the bottom blade. All such grinding operations should be carried out by your dealer on a quality, well maintained cylinder/ bottom blade grinding machine.

CUTTERHEAD BOTTOM BLADE REPLACEMENT

Remove the bottom blade holder by removing the three fixing bolts at each end and withdraw from the cutterhead. Remove the worn bottom blade and discard the countersunk screws and securing nuts. Fit the new blade to the holder and loosely assemble with new countersunk screws and securing nuts. Tighten the centre bolts to a torque of 40 Nm. Continue by tightening the remaining bolts to the same torque by working from the centre out towards the blade ends.

The new bottom blade must be ground on its holder prior to refitting to the cutterhead. Adjust the cutting cylinder position to give adequate clearance for fitting the new bottom blade holder. Refit the bottom blade holder assembly to the cutterhead using the original fixing bolts and tighten to a torque of 35 Nm. Finally adjust the cylinder to the bottom blade, refer - CUTTERHEAD CYLINDER TO BOTTOM BLADE ADJUSTMENT.

RAISING THE MOWER OFF THE GROUND

WARNING: PREVENT ACCIDENTS - Before raising the mower ensure that:

- The lifting device to be used is in good condition and capable of supporting the weight of the mower securely. Minimum lift capacity 2000 Kg.
- The mower is on level ground.
- The parking brake is applied.
- The engine is switched off and the ignition key removed.
- The ground under the lifting device is level and firm.
- The lifting device is secure against one of the mower lifting points.
- If raising the front of the mower, both of the rear wheels must be chocked securely to prevent the mower rolling away. Note that the parking brake only operates on the front wheels.

WARNING: PREVENT ACCIDENTS - When the mower is raised off the ground:

- NEVER crawl under the mower.
- NEVER start the engine.



TOWING THE MOWER

Towing procedure : Connect a rigid tow bar between the towing eye on the mower and a suitable towing vehicle. Ensure that the towing vehicle specification is suited to braking the combined vehicle weight to rest whilst effecting complete control at all times. Ensure that the towing vehicle's parking brake is applied. Chock the mower front wheels to prevent the mower rolling away.

De-commission the front wheel motor disc brakes as follows :-

i) Identify the right hand front wheel motor disc brake assembly and remove the rubber plug (item 2). Position a M12 x 40mm long setscrew (item 5) with washer (item 4) through the brake release bar (item 3) and into the hole in the centre of the motor end plate. Tighten the setscrew (item 5) into the threaded hole in the brake piston until the brake is released.

ii) Identify the left hand front wheel motor disc brake assembly and repeat the previous procedure.



MAINTENANCE

TOWING THE MOWER

Continued.

De-commission the hydraulic service braking system as follows:-

Open the transmission bypass valve situated as shown on top of the transmission pump.

The valve is fully open at 3 anti-clockwise revolutions. Do not open the valve past 3 revolutions.

The steering must be operated manually when the mower is being towed. The steering will feel heavy as there is no hydraulic assistance when the engine is switched off.

The mower is now in a freewheel condition and can be towed for a short distance at slow speed.

Remove wheel chocks before towing.

After towing the mower: To return the mower to its normal working condition the following procedure must be adopted.

Chock the front wheels and re-commission the hydraulic service braking system as follows :-

i) Close the transmission bypass valve. Turn clockwise and tighten to a torque of 48- 52 Nm.

Re-commission the front wheel motor disc brakes as follows :-

i) Identify the right hand front wheel motor disc brake assembly. Rotate the setscrew (item 5) anti-clockwise and remove together with washer (item 4) and brake release bar (item 3). Reassemble the rubber plug (item 2) into the motor end plate.

ii) Identify the left hand front wheel motor disc brake assembly and repeat the previous procedure.

Store the brake release bars, washers and setscrews (items 3, 4 and 5) for future use.

Remove the wheel chocks.

Disconnect the tow bar.

The mower braking system will now operate in the normal way.

WARNING: PREVENT ACCIDENTS - Before using the mower, ensure that the braking system operates correctly. Carry out initial checks with the mower at slow speed. Do not operate the mower with a defective braking system. Do not operate the mower with the brakes de-commissioned.





- 1. Front wheel motor.
- 2. Rubber plug.
- 3. Brake release bar.
- 4. Washer M12 (09485).
- 5. Setscrew M12 x 40 (ZDH1L040U).

GRASS CUTTING FAULTS

FAULT	POSSIBLE CAUSE	REMEDY
Areas of uncut grass at	Turning too tightly.	Reduce turning radius.
point of overlap between cutting cylinders.	Mower sliding sideways when travelling across face of a slope.	Mow up/down slope.
	One end of cutterhead out of ground contact caused by:	
	- Poorly routed hoses or wrongly positioned hydraulic adaptors.	Reroute hoses/reposition hydraulic adaptors.
	- Pivot pins seizing.	Free off and grease pivot pins.
	- Grass build up under cutterhead.	Remove grass.
Ridge lines in the cut	Forward speed too high.	Reduce forward speed.
travel over full width.	Cylinder speed too slow.	Increase mower engine speed.
	Height of cut too low.	Raise height of cut.
Ridge lines in the cut grass across the direction of travel over the cutting width of one cylinder.	Cylinder is running slow.	Refer - TROUBLE SHOOTING for remedy.
Step in cut grass height at point of overlap	Inconsistent height of cut setting on one cylinder.	Check and readjust height of cut setting.
between cutting cylinders.	Raise/Lower position control not in float position.	Operate position control to float position.
	One end of cutterhead out of ground contact caused by:	
	 Poorly routed hoses or wrongly positioned hydraulic adaptors. 	Reroute hoses/reposition hydraulic adaptors.
	- Pivot pins seizing.	Free off and grease pivot pins.
	- Grass build up under cutterhead.	Remove grass.

GRASS CUTTING FAULTS

Continued. –

FAULT	POSSIBLE CAUSE	REMEDY
Some uncut or poorly cut strands of grass.	Cutting cylinder is partially out of contact with the bottom blade.	Readjust cutting cylinder to bottom blade.
	Cutting cylinder is in heavy contact with the bottom blade.	Readjust cutting cylinder to the bottom blade.
	Height of cut is too high.	Lower height of cut setting.
	Cutting edges of cutting cylinders/bottom blades are rounded.	Backlap or regrind to restore cutting edges.
Lines of uncut or badly cut grass in direction of travel.	Tramlining of cutting edges due to heavy contact caused by poor cutting cylin- der to bottom blade adjustment.	Backlap or regrind to restore cutting edges.
	Bottom blade in ground contact.	Raise height of cut.
	Nose down attitude of bottom blade.	Readjust cutterhead to ensure bottom blade is parallel to ground.
	Cutterheads bouncing.	Reduce forward speed. Reduce weight transfer.
	Worn cylinder bearings/bearing hous- ing pivots.	Replace worn parts.
	Loose components in cutterhead.	Check and retighten as necessary.
Scalping.	Undulations too severe for height of cut setting.	Use floating cutterheads.
	Height of cut too low.	Raise height of cut.

GRASS CUTTING FAULTS Continued. **POSSIBLE CAUSE** FAULT REMEDY Excessive bottom blade Bottom blade in heavy Raise height of cut. ground contact. wear. Cutting edges of the cutting Backlap or regrind to restore cylinder/bottom blade cutting edges. are rounded. Cylinder is in heavy Readjust the cutting cylinder to contact with the bottom the bottom blade. blade. Damaged cutting cylinder or Regrind or replace as necessary. bottom blade. Excessively abrasive ground Raise height of cut. conditions.

TROUBLE SHOOTING

When using the following chart it may be found that overhaul of major components or hydraulic pressure adjustments are necessary. In this case it is recommended that your dealer make these repairs as he is properly equipped to do this work.

→ WARNING: PREVENT ACCIDENTS - ALWAYS Apply the parking brake, switch off the engine and remove the ignition key before attempting to work on the mower.

PROBLEM	POSSIBLE CAUSE	REMEDY
Engine will not start with ignition key.	Transmission neutral interlock switch not energised.	Remove foot from forward/reverse travel pedal.
		Check setting of transmission neutral interlock switch.
	Parking brake interlock switch not energised.	Operate parking brake lever to the 'ON' position.
		Check setting of parking brake interlock switch.
	Cutterhead drive interlock switch not energised.	Move cutterhead drive switch to the 'OFF' position.
		Check setting of cutterhead interlock switch.
	Faulty electrical connection.	Trace and correct fault.
For all other engine proble	ms, refer - ENGINE HANDBOOK.	
Flat Battery.	Terminal connection loose or corroded.	Clean and tighten terminal connections. Recharge battery.
	Loose or defective alternator belt.	Re-tension or replace drive belt, refer - ENGINE HANDBOOK.
	Defective battery.	Recharge battery. Replace battery.
	Electrical short circuit.	Trace short circuit and make good.

TROUBLE SHOOTING

Continued.

PROBLEM	POSSIBLE CAUSE	REMEDY
Differential lock non operational.	Defective switch.	Check switch and replace if necessary.
	Defective solenoid valve.	Service or replace solenoid valve.
	Defective wiring.	Check wiring/connections as necessary.
Hydraulic oil sys- tem overheating.	Blocked radiator screen.	Clean screen.
	Blocked oil cooler fins.	Clean fins.
	Blocked engine radiator matrix.	Clean matrix.
	Low relief valve setting.	Have relief valve cleaned and pressure checked. Consult your Hayter dealer.
	Low oil level.	Fill reservoir to correct level.
	Brakes engaged.	Disengage brakes.
	Cutting cylinders tight on bottom blades.	Readjust settings.
	Defective fan or fan drive.	Check fan operation and service as required.
Incorrect brake operation.	Faulty wheel motor brake assembly.	Consult your Hayter dealer.
	Worn brake discs.	Replace brake discs. Consult your Hayter dealer.

TROUBLE SHOOTING Continued. PROBLEM **POSSIBLE CAUSE** REMEDY Lack of transmission Parking brake engaged. Release parking brake. drive. Low oil level. Fill reservoir to correct level. Incorrect oil used. Drain reservoir and refill with correct oil. Defective travel pedal Check linkage and replace defective linkage. parts. Defective transmission Have the transmission pump overhauled by pump. your Hayter dealer. Transmission relief valve Close relief valve, refer - MAINTENANCE open. TOWING THE MOWER. Broken drive coupling. Replace drive coupling. Transmission filter Replace transmission blocked. filter. Forward/backward transmission Transmission neutral ad-Readjust transmission neutral creep in neutral. justment incorrectly set. setting. Work/transport modes non-oper-Defective control switch. Check switch and replace if necesational sary. Defective solenoid valve. Service or replace solenoid valve. Defective wiring. Check wiring connections and repair/replace as necessary. Service or replace Lack of steering. Defective steering valve. steering valve. Defective hydraulic Service or replace hydraulic cylinder. cylinder. Replace defective hose. Damaged steering hose.

TROUBLE SHOOTING

Continued. -

PROBLEM	POSSIBLE CAUSE	REMEDY
Excessive noise in hydraulic system.	Faulty pump.	Identify noisy pump and service or replace.
	Faulty motor.	Identify noisy motor and service or replace.
	Air leaking into system.	Tighten or replace hydraulic fittings particularly in suction lines.
	Suction strainer blocked or damaged.	Clean and replace suction strainer or renew as necessary.
	Excessive oil viscosity due to cold conditions.	Allow system to warm up.
	Low relief valve setting.	Have relief valve cleaned and pressure checked. Consult your Hayter dealer.
	Low hydraulic oil level.	Fill hydraulic oil reservoir to correct level.

TROUBLE SHOOTING

Continued. -

PROBLEM	POSSIBLE CAUSE	REMEDY
After initial satisfactory	Worn pump or motor.	Replace as necessary.
operation machine loses power.	Low hydraulic oil level.	Fill hydraulic oil tank to correct level.
	Incorrect oil viscosity.	Renew oil in hydraulic tank with hydraulic oil of correct viscosity grade, refer - SPECIFICATIONS.
	Oil filter element blocked.	Change filter element.
	Faulty pressure relief valve.	Have relief valve cleaned and pressure checked. Consult your Hayter dealer.
	Overheating.	Check cylinder to bottom blade adjustment. Reduce workrate i.e. increase height of cut or reduce forward speed.
		Incorrect hydraulic oil grade, refer - Problem 'Hydraulic Oil System Overheating'.
	Leaks on suction hose.	Check and tighten fittings. Replace hose if necessary.
Cylinder "knocks" while rotating.	High spot on cylinder or bottom blade due to contact with foreign object.	Remove high spot with a stone and backlap to restore cutting edges. Serious damage will necessitate regrinding.
	Worn cylinder bearings.	Replace as necessary.
TROUBLE SHOOTING

Continued. -

DDODI EN		
PKOBLEM	PUSSIBLE CAUSE	REMEDY
One cylinder rotates slowly.	Cutting cylinder bearing seized.	Replace as necessary.
	Incorrect rotation motor fitted.	Check motor and replace if necessary.
	Diverter valve only partly open.	Free off and lubricate or replace diverter valve as necessary.
	Motor integral check valve jammed open.	Have check valve cleaned and checked.
	Cutting cylinder tight on the bottom blade.	Readjust setting.
	Motor worn.	Replace motor.
Cutterhead fails to lift out of work.	Lift cylinder seal failure.	Replace seals.
	Pressure relief valve jammed open or wrongly set.	Have relief valve cleaned and pressure checked. Consult your Hayter dealer.
	Defective control valve.	Overhaul control valve.
	Mechanical blockage.	Remove blockage.
Cutterheads do not follow ground contours.	Incorrect hose routing or incorrect orientation of hydraulic fittings.	Move cutterheads throughout extremes of movement and observe any tightness in the hoses. Correctly route hoses and orientate fittings as necessary.
	Tightness in pivots.	Free off and grease as necessary.
	Mower operated in 'hold' position.	Move position control lever to 'float' position.
	Weight transfer set too high.	Reduce weight transfer.

TROUBLE SHOOTING

TROUBLE SHOOTING

Continued. -

PROBLEM	POSSIBLE CAUSE	REMEDY
Cutterheads fail to start up when lowered into work.	Faulty seat sensor switch.	Check mechanical and electrical operation of switch.
	Low oil level.	Fill hydraulic oil reservoir to correct level.
	Diverter valve jammed.	Free off and lubricate or replace the diverter valve as necessary.
	Sheared drive shaft.	Check motor and cylinder drive shafts and replace if necessary.
	Pressure relief valve jammed open or wrongly set.	Have relief valve cleaned and pressure checked. Consult your Hayter dealer.
	Cutting cylinder jammed.	Free off as necessary.
	Cutting cylinder tight on bottom blade.	Readjust setting.
	Cutterhead control valve in the 'off' position caused by:	
	- Defective control valve.	Overhaul control valve.
	- Electrical fault.	Have electrical system checked.
Cylinders rotate in wrong direction.	Hoses wrongly connected.	Check hydraulic circuit and reconnect as necessary.
	Cutterhead drive switch wrongly connected.	Check switch electrical connections.



953910KG141004

ELECTRICAL CIRCUIT DIAGRAM

ITEM NO. DESCRIPTION

PART NO.

1	Switch Parking Brake Interlock	950865
1.	Glow Dlug Timor	15604 65002
2.	Glow Flug Hiller.	13094-03992
3. 4	Light - Parking Brake.	924001/950858
4.	Light - Glow Plugs.	924601/950857
5.	Light - Neutral.	924601/950862
6.	Light - Cutterhead Drive Off.	924601/950861
7.	Light - Return Filter.	924601/950866
8.	Light - Pressure Filter.	924601/950863
9.	Light - Battery Warning.	924601/924605
10.	Light - Engine Oil Pressure.	924601/924606
11.	Light - Engine Coolant Temperature.	924601/924602
12.	Light - Hydraulic Oil Temperature.	924601/924603
13.	Diodes - Overheat - Audible Warning.	950868
14.	Switch - Beacon (supplied with beacon kit).	924608
15	Switch - Work/Transport Mode	924607
16	Solenoid - Centre Cutterhead Drive Reverse	70-06-246
10.	Solenoid Centre Cutterhead Drive Forwards	70 06 246
17.	Solenoid - Wing Cutterhead Drive Powerce	70-06-246
10.	Solehold - Wing Cutterhead Drive Reverse.	70-00-240
19.	Solenoid - wing Cutternead Drive Forwards.	/0-06-246
20.	Switch - Cutterhead Drive.	924864
		7 0 00 007
21.	Fusebox.	70-09-096
	1. 10A Cutter Drive & Lift Configuration	70-09-026
	2. 10A Transmission & Horn	70-09-026
	3. 3A Instruments	70-09-024
	4. Blank (Beacon)	-
	5. Blank (Cab Wipers) or (Air Suspension Seat)	-
	6. Blank (Lighting Kit)	-
	7. Blank (Lighting Kit)	-
	8. 30A Engine Start (Fuel Solenoid)	70-09-027
22.	Switch - Ignition.	74-09-009
23.	Switch - Horn.	924618
24	Relay - Cutterhead Drive Warning Lamps	70-09-148
25	Relay - Overheat Audible Warning	70-09-148
25. 26	Cutterhead Drive/Starter Interlock	995713
20.	Palay Clow Plugs	02462.5
27.	Timer Operator Presence Interlock	70 01 512
20.	Switch Cutterhand Lift Configuration	70-01-312
29. 20	Switch - Cutternead Lift Configuration.	924008
30.	Solenoids - Lift Configuration.	03-00-082
31.	Temperature Gauge (supplied with temp kit).	-
32.	Relay - Fuel Solenoid	16259-60250
33.	Connectors for Lighting Kit.	-
34.	Horn.	70-09-108
35.	Switch - Operator Seat.	953819
36.	Solenoid - Differential Lock.	910627
37.	Switch - Differential Lock.	924624
38.	Switch - Pressure Filter.	-
39.	Switch - Hydraulic Oil Temperature.	940852
40.	Connection for Beacon Kit.	-
41.	Switch - Neutral/Starter Interlock.	995711
42.	Battery.	70-09-015
43	Switch - Engine Oil Pressure	-
44	Starter Motor	_
	N COLLEGE INTO COLL	



ITEM NO.	DESCRIPTION	PART NO.
45.	Alternator/Regulator.	-
46.	Engine Temperature Sender (supplied with temp kit).	-
47.	Glow Plugs.	-
48.	Switch - Engine Overheat.	-
49.	Solenoid - Fuel	(SA 4259-12)
50.	Engine.	950950
51.	Hourmeter.	910850
52.	Switch - Return filter.	-
53.	Solenoids - Work/Transport Mode.	910627
54.	Fuse - Engine Glow plugs 60A	-
55.	Fuse - Main 60A	-
56.	Diode - Parking Brake	950868
57.	Diode - Seat Switch	950868
58.	Relay - Seat Switch	70-09-148



TRANSMISSION / BRAKE - HYDRAULIC CIRCUIT

ITEM NO.	DESCRIPTION	PART NO.
1	Motor - Front Wheel Twinlock - 332cc/Rev	953686
2	Motor - Front Wheel Twinlock - 332cc/Rev	953682
3	Manifold - Front Transmission	953683
4	Valve - Solenoid - Work/Transport	-
5	Valve - Pilot Operated - Diff Lock	-
6	Relief Valve - Serial Lines - 80 bar	-
7	Valve Solenoid - Diff Lock	-
8	Relief Valve - Front Motor - 375 Bar	-
9	Flow Divider - Front Wheels	-
10	Valve - Pilot Operated - Diff Lock	-
11	Shuttle Valve - Hot Oil Purge	953687
12	Relief Valve - Hot Oil Purge	-
13	Relief Valve - Serial Line - 375 Bar	953710
14	Wheel Motor - Rear - 130cc/Rev	953685
15	Pump - Transmission - 52cc/Rev	953684
16	Relief Valve - Charge Pump - 29 Bar	-
17	Relief Valves - Fwd/Rev - 350 Bar	-
18	Oil Cooler	950606
19	Filter - Charge - 10 Micron	950597
20	Filter - Return - 10 Micron	924865
21	Hydraulic Oil Tank	953802
22	Check Valve - Transmission Fwd/Rev	-
23	Suction Strainer - 125 Micron	950608
24	Valve - Brake	70-06-015W
25	Check Valve	-
26	Orifice - 1.5mm Dia.	-

953910KG141004

1.80



HYDRAULIC CIRCUIT DIAGRAM

ITEM NO.	DESCRIPTION	PART NO.
1	Gear pump - Centre Cutterhead Drive.	74-06-154
2	Gear pump - Wing Cutterhead Drive.	74-06-154
3	Gear pump - Steering and Cutterhead Lift	74-06-154
4	Relief Valve - Steering 110 bar	-
5	Steering Unit	910649W
6	Check Valve - Steering Shock Bypass R.H.	-
7	Check Valve - Steering Shock Bypass L.H.	-
8	Relief Valve - Steering Shock L.H.	-
9	Relief Valve - Steering Shock R.H.	-
10	Steering Cylinder - Rear Axle	70-01-195W
11	Spool Valve - Cutterhead Lift L.H.	-
12	Spool Valve - Cutterhead Lift Centre	-
13	Spool Valve - Cutterhead Lift R.H	-
14	Solenoid Valve 131 or 212 R.H	953609
15	Solenoid Valve 131 or 212 L.H.	953609
16	Hydraulic Cylinder - RH Wing Cutterhead.	953603
17	Hydraulic Cylinder - RH Front Cutterhead.	910109W
18	Hydraulic Cylinder - Centre Cutterhead.	910109W
19	Hydraulic Cylinder - LH Front Cutterhead.	910109W
20	Hydraulic Cylinder - LH Wing Cutterhead.	953603
21	Solenoid Valve Assembly - Cutterhead Drive (2- pl).	70-06-245
22	Solenoid Cutting Cylinders Forwards (2-pl).	70-06-246
23	Solenoid Cutting Cylinders Reverse (2-pl).	70-06-246
24	Cutter Drive Control Manifold Front and Centre.	910699
25	Restrictor Valve - Variable Weight Transfer.	910709
26	Relief Valve - Cutterheads Front and Centre - 250 bar	910708
27	Diverter Valve - Centre Cutterhead.	953601
28	Hydraulic Motor - Centre Cutterhead.	940602
29	Check Valve/Orifice - Motor Bypass Centre Cutterhead.	-
30	Diverter Valve - L.H. Front Cutterhead.	953601
31	Hydraulic Motor - L.H. Front Cutterhead.	940602
32	Check Valve/Orifice - L.H. Front Cutterhead.	-
33	Diverter Valve - R.H. Front Cutterhead.	953601
34	Hydraulic Motor - R.H. Front Cutterhead.	910696
35	Check Valve/Orifice - R.H. Front Cutterhead.	-
36	Cutter Drive Control Block Wing Cutterhead.	953600
37	Relief Valve - Wing Cutterhead - 250 bar.	953610
38	Diverter Valve - R.H. Wing Cutterhead.	953601
39	Hydraulic Motor - R.H. Wing Cutterhead.	910696
40	Check Valve/Orifice - R.H. Wing Cutterhead.	-
41	Diverter Valve - L.H. Wing Cutterhead.	953601
42	Hydraulic Motor - L.H. Wing Cutterhead.	940602
43	Check Valve/Orifice - L.H. Wing Cutterhead.	-
44	Test Point - Cutterhead Drive - Wing.	910615
45	Test Point - Cutterhead Drive - Front & Centre.	910615
46	Test Point - Weight Transfer.	910615
47	Front Transmission Manifold.	950616
48	Charle Value Oil Carley Demons Alter	910010
49 50	Check valve - On Cooler Bypass - 4 bar.	910041 050609
51	Oil Cooler	930008
52	OII COURT. Deturn Filter Bynass Check Value 2 Der	930000
52	Noturn Finer - Dypass Check valve - 2 Dal. Oil Tank	924003
55		<i>533002</i>

⁵⁴ Orifice - Wing Cutterhead Hydraulic Cylinder 1.4mm (2 pl).65-06-019

WARRANTY

HAYTER LIMITED warrants to the original user / purchaser that this unit shall be free from defects in material and workmanship for a period of 12 calendar months from the date of delivery. This warranty excludes proprietary items which have the benefit of the supplying manufacturer's warranty.

Engine manufacturers furnish their own warranties and provide services through their authorised network. If you experience any difficulty please contact your specialist Hayter dealer.

It is the end user's / purchaser's responsibility to ensure that the service schedule and service book as applied are acted upon. HAYTER LIMITED reserve the right to request inspection of a service book, where relevant at any reasonable time. Failure to keep the service schedule up to date may invalidate the warranty. Owners should therefore satisfy themselves that the products are operated and serviced correctly, particularly where they are operated on a contract or hire basis.

This warranty which is not capable of assignment does not apply to any unit that has been tampered with, altered, misused or abused and **will become invalid if non genuine Hayter parts are fitted.** This warranty does not cover minor adjustments unless they are due to defective materials or workmanship. Consult the operators manual or your authorised Hayter dealer for assistance when making these adjustments.

To make a warranty claim, contact your authorised Hayter dealer through whom the machine was originally supplied, indicating the machine serial number and purchase date. Subject to the conditions and exclusions in this warranty, the authorised dealer will at our option, repair or replace any warranted part within the duration of the warranty period.

This 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 or telephone : HAYTER LIMITED, Service Department, Spellbrook, Bishop's Stortford, Herts., CM23 4BU. Telephone : (01279) 723444.

CUSTOMER INFORMATION

MACHINE DETAILS
Model:
Machine Serial No.:
Engine Serial No.:
Cutterhead Serial No.s:
Transmission Pump Serial No.:
Transmission Valve Block Front Serial No.:
Cutter Control Valve (Front & Centre) Serial No.:
Cutter Control Valve (Wing) Serial No.:

Download from Www.Somanuals.com. All Manuals Search And Download.

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com