

FROM MACHINE NUMBER 82-9601

**Hayter**

**Instruction and Spare Parts Book**

**HAYTER  
KESTREL**

**BRIGGS & STRATTON ENGINE**

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**HAYTERS P.L.C.**

**BISHOP'S STORTFORD · HERTS · ENGLAND · CM23 4BU**

**FIFTEEN PENCE**

## INTRODUCTION

The 19" HAYTER KESTREL is robustly constructed and designed to give an efficient, economical performance combined with ease of operation. The correct operation and attention to routine maintenance as recommended will ensure long and efficient service from the machine. It is important that the machine is not abused or neglected.

The machine is carefully checked at our works prior to despatch and every effort is made by Hayters to see that the machine arrives in perfect condition. Your dealer will ensure this on delivery. It is recommended that you permit the dealer to go through the operating instructions with you.

Due to the possible settling in of new components, it is essential that after a short period of use all securing nuts and bolts be checked and tightened if necessary.

## GUARANTEE

The machine is guaranteed against faulty workmanship and materials for a period of 12 months from the date of purchase. In the case of components not manufactured by HAYTERS P.L.C. no guarantee is given but the purchaser shall be entitled to any guarantee given by the manufacturers of such components. Any claim under guarantee should be referred to the Agent through whom the machine was originally supplied, quoting the machine Serial Number which is located on top of the mainframe casting at the rear of the machine.

The guarantee becomes void if any parts not made or supplied by Hayters are fitted to the machine. In the case of machines being used for hiring out purposes no guarantee of any kind is given or is to be implied.

## ASSEMBLY INSTRUCTIONS

**Handlebar Adjustment:** To adjust the handlebar to a suitable working height, slacken the handlebar securing locknut sufficient to disengage the handlebar pins from the holes in the handlebar bracket, engage the pins into the second pair of holes and securely tighten the handlebar locknut.

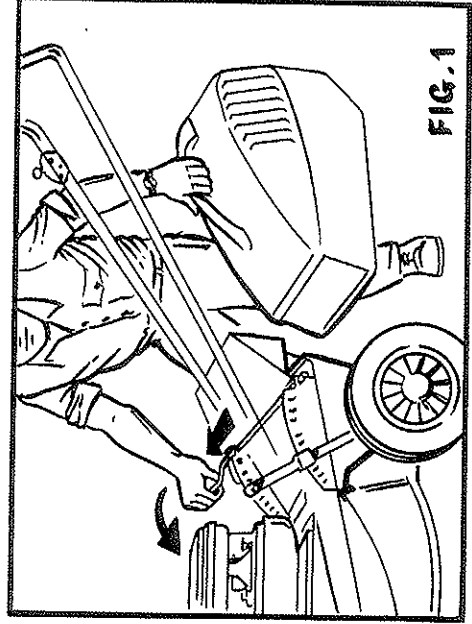
**To Fit the Grassbox:** Raise the grass deflector, by means of the lever situated on the offside of the machine, as shown in Fig. 1. It will be necessary, in order to over-ride the deflector stop, to pull the lever outwards before moving the lever forward. Fit the grassbox over the ridge provided on the mainframe casting and release the deflector operating lever.

## OPERATING INSTRUCTIONS

**Engine:** See the engine manufacturers' handbook and carefully carry out the recommendations for starting the engine, ensuring that engine sump is filled to the correct level with one of the recommended grades of lubricating oils. It is most important that oil other than those grades recommended should not be used in this engine. See recommended lubrication chart affixed to the engine.

The engine as fitted to this machine incorporates an automatic choke device; when starting the engine set the throttle control lever to the 'FAST' position. The engine is governed to run at the maximum speed of 3,200 r.p.m. and this speed is obtained by setting the throttle control lever in the 'FAST' position. Should any adjustments be made to the engine it is essential that the maximum governed speed of 3,200 r.p.m. is strictly adhered to.

**Cutting Height Adjustment:** The cutting height range is from  $\frac{5}{8}$ " to  $1\frac{5}{8}$ " with graduated settings; to increase the height of cut, the height adjusting lever must be moved towards the rear of the machine until the required cutting height is obtained.



## HINTS ON OPERATION

The Hayter Kestrel will deal efficiently with a multiplicity of grass cutting chores. For lawn mowing with the grassbox fitted it will cut, collect and leave a neat finish and it is ideal also for Autumn leaf collection. For runaway growth on lawns and other areas it can be used without the grassbox, in which case the grass deflector will automatically lower over the discharge aperture and deflect the cuttings downwards and away from the operator. The Kestrel is capable of giving a long and efficient service and observance of the following 'Hints on Operation' will ensure this.

**Lawns:** Fit grassbox, raise cutting to maximum (1½") and cut area. This will help to predetermine the height setting for the next cut and also eliminate the possibility of 'scalping' occurring on any high spots in the lawn.

**Borders:** The inset wheels permit mowing over lawn edges. Edge grasses should be cut with edging cutters first, the cuttings will then be collected as the lawn is mown.

**Walls, Fences and other Obstructions:** The machine can be safely used to cut close up to obstructions.

**Runaway Growth on Lawns:** Set cutting height to maximum, remove grassbox and cut area. The cuttings can then be collected by fitting grassbox and working over area a second time; if cuttings are wet, leave to dry and collect later.

**Hidden Obstructions:** When mowing overgrown areas, if practicable survey area first, removing any large items of debris. Should an obstruction be encountered whilst mowing the attention of the user will immediately be drawn by the frictional noise which is set up; draw the machine backwards without raising the front. Stop the engine and remove the plug lead, examine the cutting mechanism. If undamaged remove obstruction or proceed to work round it. Should, however, the cutterbar be broken or badly damaged it should be replaced immediately.

**Blockage in the Discharge Chute Aperture:** Observance of the preceding 'Hints' should eliminate the possibility of a blockage occurring in the Discharge Chute Aperture, for it is usually caused by attempting

to remove too much grass initially with a low cutting height setting, especially, when conditions are wet, or from allowing the grassbox to become overfilled. Remember that, whatever the conditions, it is better to cut higher and more frequently than to try and cut low at the first cutting. It is most important that the engine is stopped and the plug lead disconnected before attempting to clear a blockage or examine the cutting mechanism.

**Under Deck Cleanliness:** The underside of the mainframe casing is designed to permit the cutting mechanism to work efficiently and safely and also to provide the correct volume of air to pass through the casing to carry the cuttings through the rear aperture and into the grassbox or, alternatively, deflected downwards and on to the ground. After a period of use, and more especially when conditions are wet, grass cuttings can accumulate on the underside of the casing and if allowed to remain will eventually build up and greatly impair the efficiency of the machine. Regular cleaning of the underside of the casing by hosing or scraping off the debris will prevent this. Before attempting to clean the underside of the casing, stop the engine and disconnect the plug lead, the machine may then be turned on its side with the carburettor uppermost.

**Grassbox:** The grassbox requires minimal attention; ensure that the interior of the box is kept clean and that the air vents in the sides of the box are kept clear.

## MAINTENANCE

### Lubrication:

**Height Adjustment Linkage Points:** Apply a small amount of oil to the linkage and pivot points occasionally.

**Throttle Control Cable:** Apply a light application of oil along the entire length of the outer casing. Allow time for the oil to seep through to the inner cable and then wipe clean.

**Wheels:** The wheel bearings are sealed units and are pre-packed with grease sufficient to last a long period of time, should however, further lubrication be required remove wheel covers and run in a little lubricating oil.

**Deflector Plate:** Apply a light application of oil to the deflector plate hinge points occasionally.

**Engine:** See engine manufacturer's handbook and carefully carry out the recommended instructions, paying particular attention to the lubricating instructions. Cover up the machine when not in use.

The use of an upper cylinder lubricant is recommended where the machine is infrequently used and also towards the end of the season before Winter storage. When storing the machine, disconnect the spark plug lead, remove the spark plug. Insert a small quantity of oil into the cylinder and turn the engine, by means of the recoil start, a few times to distribute the oil. Replace spark plug, ensuring that the piston is at the top of its compression stroke and that both the inlet and exhaust valves are closed.

#### **Adjustments:**

**Securing Nuts and Bolts:** It is essential that all securing nuts and bolts are examined periodically and tightened if necessary.

**Cutterbar:** The Hayter cutterbar is friction driven by the dished bottom plate when in use. In the event of the cutterbar striking an obstruction the cutter bar is free to move relative to the bottom plate to a new position at which it will continue to cut. Regular inspection of the cutting mechanism is recommended to ensure that the cutterbar is in good condition. Should the cutterbar be damaged to the extent that it is likely to become out of balance it should be replaced immediately, ensuring that the new cutterbar is fitted exactly as shown in Fig. 2 and that the retaining setscrew, Item No. 45 is tightened securely. The cutterbar may be resharpened, ensuring that both cutting edges are evenly sharpened to maintain the balance.

It is important, when examining, cleaning or making any adjustment to the cutting mechanism that the engine be stopped and the plug lead disconnected.

## **SAFETY PRECAUTIONS** (As recommended in B.S.5107:1974)

- Know your controls. Read the owner's manual carefully. Learn how to stop the engine quickly in any emergency.
- Make sure the lawn is clear of sticks, stones, bones, wire and debris. They could be thrown by the blade.
- Stop the engine and disconnect spark plug wire before checking or working on the mower.
- Damaged cutterbars and loose fixing bolts are major hazards. Before using, always visually inspect the cutting mechanism to ensure that it is in good condition. A damaged cutterbar should be replaced immediately, using only Hayter replacement cutterbars. Cutterbars can be re-sharpened, ensure that both cutting edges are evenly sharpened to maintain the balance.
- Always be sure the mower is in safe operating condition. Check all nuts, bolts and screws often. Use only replacement parts made and guaranteed by HAYTERS P.L.C
- Add fuel BEFORE starting the engine. Avoid spilling petrol and do not fill the tank while the engine is running or while you are smoking.
- Do not mow whilst people, especially children, or pets are in the mowing area.
- Never use the mower unless the guards provided by the Manufacturers are in position.
- Do not mow barefoot or in open sandals.
- Start the engine carefully with feet well away from the blades.
- Do not operate the engine in a confined space where exhaust fumes (carbon monoxide) can collect.
- Stop the engine whenever you leave the mower.
- Do not allow children or people unfamiliar with these instructions to use the mower.
- On slopes or wet grass, be extra careful of your footing.
- Never cut grass by pulling the mower towards you.
- Do not overspeed the engine or alter governor settings.
- Excessive speed is dangerous and shortens mower life.
- Store fuel in a cool place in a container specifically designed for the purpose. In general, plastic containers are unsuitable.
- Warning: Blades continue to rotate after machine is switched off.
- When using the machine without the grassbox, do not lift the deflector plate whilst the machine is in operation.
- Never insert hand into grass discharge chute whilst the engine is running.
- Stop the engine before pushing the mower across gravel drives, walks or roads.
- Never pick up or carry a mower when it is operating.

The Hayter KESTREL is perfectly safe if used correctly. Failure to observe these simple precautions may result in serious injury.

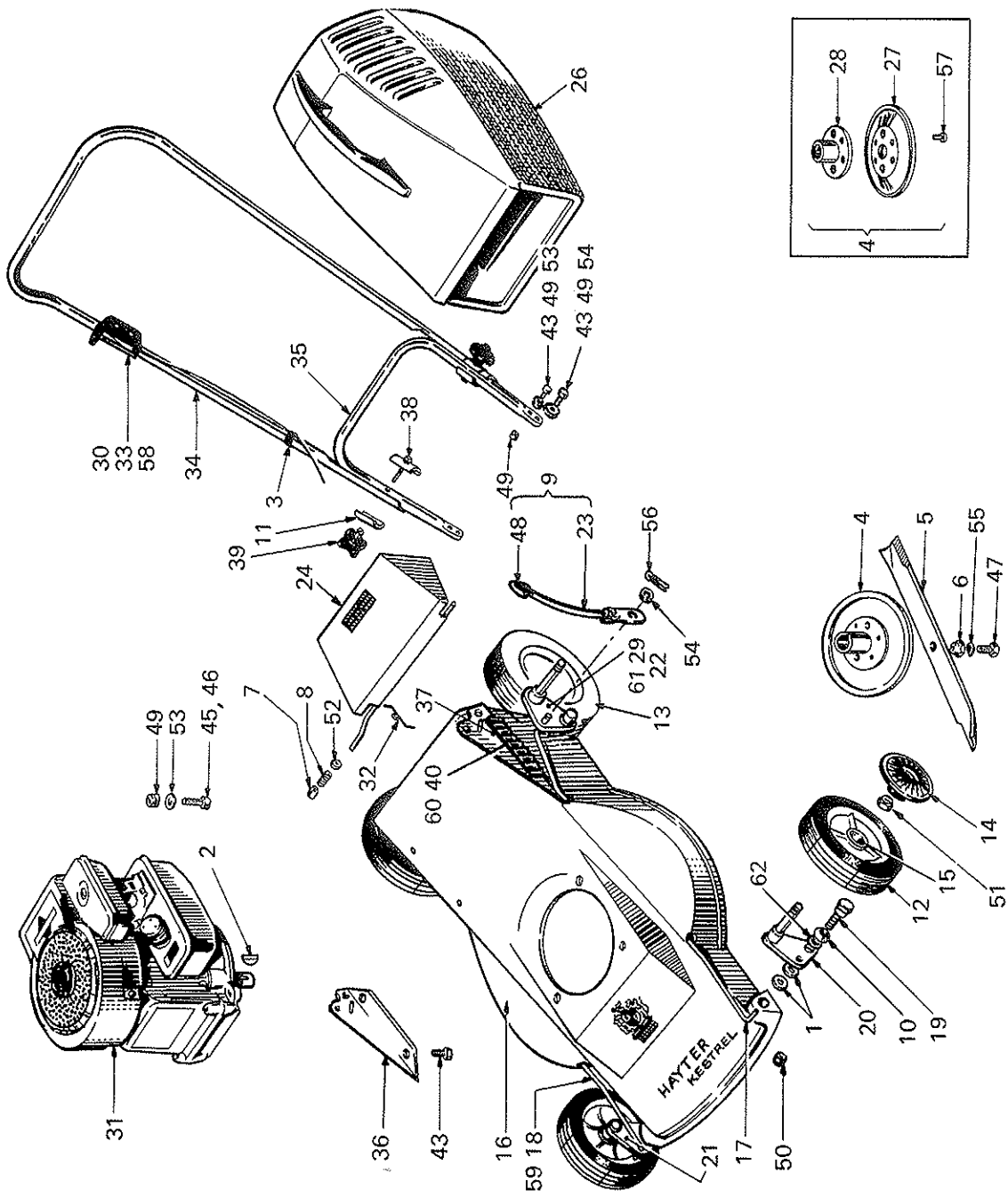


Fig. 2 MAINFRAME ASSEMBLY

**SPARE PARTS LIST**

(Subject to revision without notice)

**FROM MACHINE NUMBER 82-9601**

All spares must be ordered through an authorised Hayter Agent.

When ordering spares please quote the SERIAL NUMBER of your machine and the PART NUMBER, not the ITEM NUMBER, of the required part.

Item No.	Part No.	No. Off	DESCRIPTION	Item No.	Part No.	No. Off	DESCRIPTION
1			<b>MAINFRAME ASSEMBLY</b>	31	5601	1	Engine, Spec. No. 94909
2	591	4	Washer	32	5621	1	Spring
3	1662	1	Key	33	5631	1	Mounting Block
4	3966	1	Cable Tie	34	5649	1	Handlebar
5	4012	1	Friction Disc Assembly	35	5650	1	Handlebar Lower
6	4013	1	Cutterbar	36	5778	1	Quadrant Plate O/S
7	4014	1	Distance Piece	37	5779	1	Quadrant Plate N/S
8	4099	1	Lever Knob	38	5662	1	Handlebar Clamp Screw Assembly
9	4810	1	Spring	39	5671	2	Knob
10	5775	1	Height Adjustment Lever Assembly	40	5780	1	Moulding
11	4912	2	Disc Spring	41			
12	4918	2	Outer Clamp Plate	42			
13	5218	2	7" x 1 1/2" Wheel c/w Bearing	43	9068	8	5/8" x 5/16" UNF. S/Screw
14	5219	2	8" x 1 3/4" Wheel c/w Bearing	44			
15	5220	4	Wheel Cover	45	9082	1	1 5/8" x 5/16" UNF. Bolt (Full Dog Point)
16	5221	A/R	Bearing	46	9086	2	1 3/4" x 5/16" UNF. Bolt
17	5770	1	Mainframe Casting	47	9117	1	1 1/4" x 3/8" UNF. Bolt
18	5772	1	Connecting Rod N/S	48	5781	1	Knob
19	5226	2	Connecting Rod O/S	49	9209	11	5/16" UNF. Nyloc Nut
20	5227	1	Axle Bolt	50	9216	2	3/8" UNF. Nyloc Nut
21	5228	1	Front Axle Assy. N/S	51	9231	4	Wheel Retaining Nut
22	5769	2	Front Axle Assy. O/S	52	9261	1	1" x 1/8" O/D Washer
23	5776	1	Axle retainer	53	9266	9	1 5/16" x 5/8" O/D Washer
24	5236	1	Height Adj. Lever	54	9267	3	1 5/16" x Large O/D Washer
25		1	Grass Deflector	55	9273	1	1 1/8" S/C Spring Washer
26	5238	1	Grass Box	56	9303	1	1/2" x 3/32" Split Pin
27	5411	1	Friction Disc	57	9336	4	1/4" Dia. x 5/8" Flat HD. Rivet
28	5415	1	Friction Disc Boss	58	9358	2	M5 x 30mm Screw
29	5771	1	Rear Axle Assy.	59	5774	1	Spring
30	5499	1	Throttle Control c/w Cable	60	9317	2	Rivet
				61	9365	2	Washer, Hd. Screw
				62	4020	1	Grip Fix