

TECH/PUBS.

From Machine Number 320 7037

From Machine Number 321 4357



BY APPOINTMENT TO  
H.M. THE QUEEN  
MANUFACTURERS OF  
AGRICULTURAL MACHINERY  
HAYTERS P.L.C.

# HAYTER

## HUNTER 46

### ROTARY LAWNMOWER

#### Operating Instructions

Push & Autodrive Models

**HAYTERS P.L.C.**

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

## 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.
-  Do not operate the engine in a confined space where exhaust fumes (carbon monoxide) can collect.
-  Start the engine carefully with feet well away from the blades.
-  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.
-  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 Hunter is perfectly safe if used correctly. Failure to observe these simple precautions may result in serious injury.

## **INTRODUCTION**

The Hayter Hunter 46 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 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 the benefit of 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.

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**

Secure the upper handlebar onto the 2 lower handbars by insertion of round head bolts and tightening of handwheels.

## **OPERATING INSTRUCTIONS**

See the engine manufacturer's 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 recommended should not be used in this engine.

## **MANUAL INSTRUCTIONS**

Set throttle to choke position then briskly pull starting cord. After ignition set throttle at fast speed.

The engine is governed to run at the maximum speed of 3,150 rpm 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 3,150 rpm is strictly adhered to.

## **CLUTCH LEVER (321 only)**

The clutch incorporates a 'fail safe' device, i.e. the machine will only move forwards whilst the clutch lever, which is situated on the handlebar is manually sustained. Release of the lever will cause the machine to stop.

## **CUTTING HEIGHT ADJUSTMENT**

The cutting height range is from 3/4" - 3" (19-75mm). To increase the height of cut, move the height adjuster lever towards the front of the machine.

The Hayter Hunter 46 is a push or self propelled machine primarily designed for lawn mowing that will also deal efficiently with runaway growth on lawns and other areas. The machine is capable of giving long and efficient service, observance of the following 'Hints on Operation' will ensure this.

## HINTS ON OPERATION

The Hayter Hunter 46 is a push or self propelled machine primarily designed for lawn mowing that will also deal efficiently with runaway growth on lawns and other areas. The machine is ideal for Autumn leaf collection.

The machine is capable of giving long and efficient service, observance of the following 'Hints on Operation' will ensure this.

**Lawns:** Fit grassbag, raise cutting height to maximum (3") 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 on 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 grassbag and cut area. The cuttings can then be collected by fitting grassbag and working over area a second time; if cuttings are wet, leave to dry and collect later.

**Hidden obstructions:** When mowing over grown areas, if practicable survey the 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 friction noise which is set up; draw the machine backwards without raising the front. Stop the engine and remove the spark lead, examine the cutting mechanism. If undamaged remove the 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 preceeding '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 grassbag to become overfilled. Remember that, whatever the conditions, it is better to cut higher and more frequently than to try to cut low at first cutting. It is most important that the engine is stopped and the spark plug lead removed 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 rear aperture and into the grassbag or, alternatively, deflected downwards and onto the ground. After a period of use, and more especially when conditions are wet, grass cutting 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 remove the spark plug, the machine may then be turned on its side with the silencer uppermost, or spark plug uppermost.

**Grassbag:** The grassbag requires minimal attention; ensure that the interior of the grassbag is kept clean.

## 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 to the inner cable occasionally.

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

**Wheels:** Remove hub cap, fill with light grease and replace, thus forcing grease into bearings. On rear wheels (Autodrive only) clean and lightly grease gears.

**Clutch cable: (321 only)** Apply a small quantity of light oil by means of an oilcan to the inner cable at the point where the cable connects with the clutch cable bracket on upper handlebars. Oil penetration down the cable will be facilitated if the clutch lever is worked backwards and forwards as the oil is applied.

**Clutch adjustment: (321 only)** The clutch is a cable operated plate clutch. To adjust, slacken off 2 locknuts at top of cable. Screw in or out threaded sleeve to leave 1/16" - 1/8" (1.5mm-3.0mm) of free play to inner cable. Retighten locknuts.

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

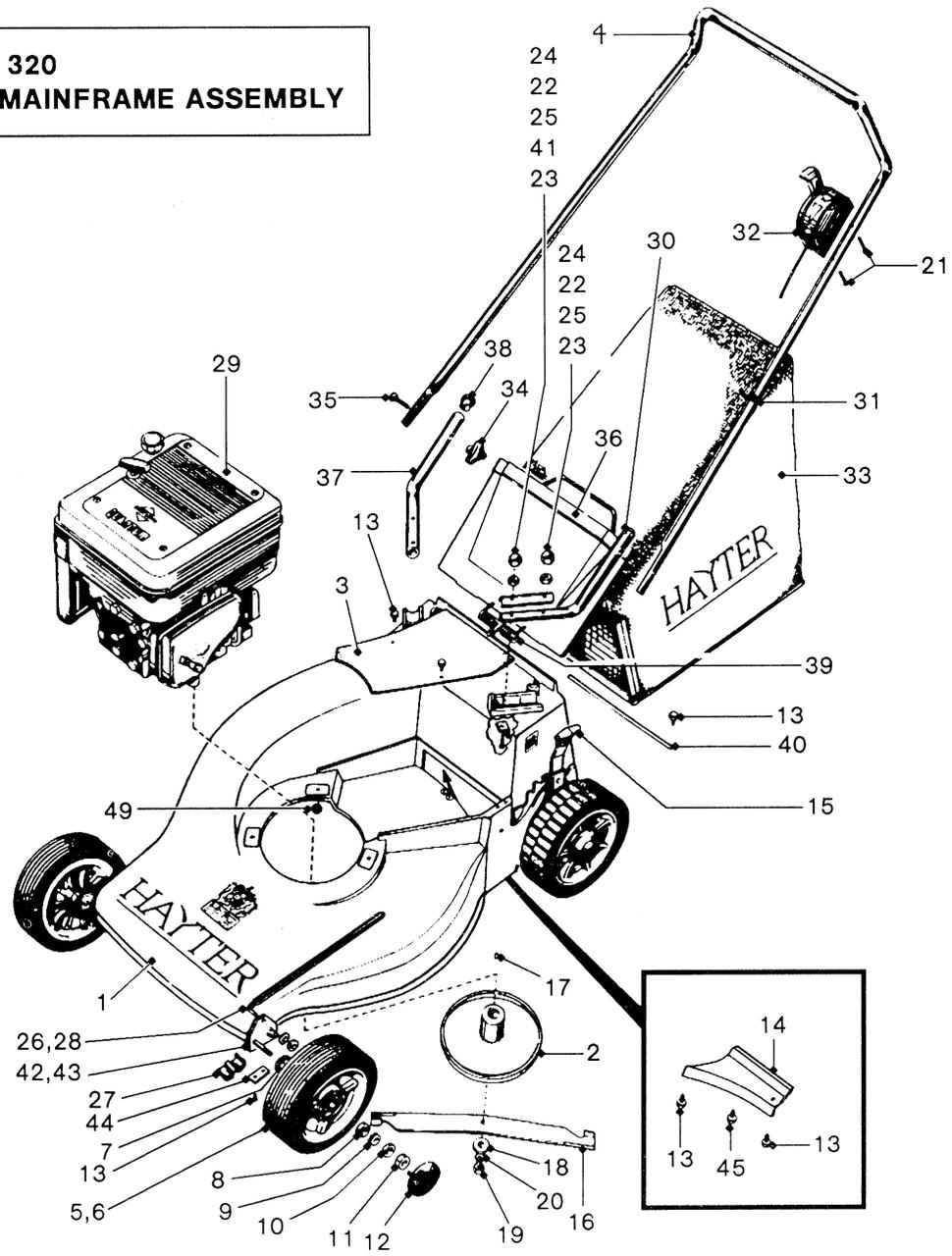
The use of an upper cylinder lubricant is recommended where the machine is infrequently used and also towards the end of the season before Winter storage. When storing the machine disconnect the spark plug lead, remove the spark plug. Insert a small quantity of oil into the cylinder and

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 the exhaust valves are closed.

**Cutterbar:** The Hayter cutterbar is friction driven by the dish bottom plate when in use. In the event of the cutterbar striking an obstruction the cutterbar 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 Figs. 1 & 3 and that the retaining setscrews, items 19 & 31 are tightened securely, a torque of 40 ft/lb is recommended. The cutterbar may be sharpened, ensuring that both cutting edges are evenly resharpened 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.

**CODE 320**  
**Fig. 1 MAINFRAME ASSEMBLY**



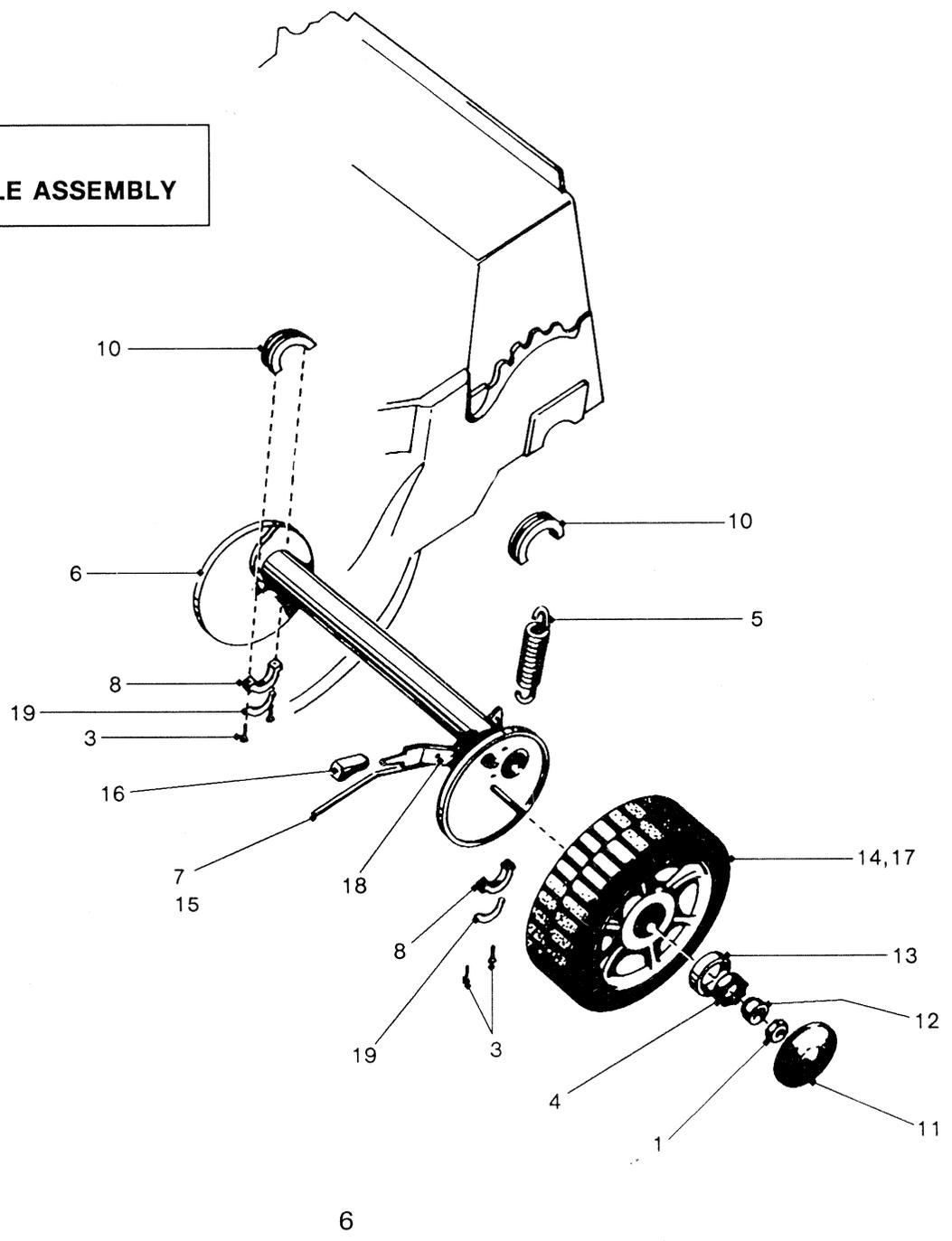
**Fig. 1 320 Mainframe Assembly SPARE PARTS LIST**  
**(Subject to revision without notice)**

**HAYTERS**

Item No.	Part No.	No. Off	Description
1	320010	1	Mainframe
2	6164	1	Friction disc assembly
3	320049	1	Transmission cover
4	320066	1	Upper handlebar
5	320050	2	Front wheel complete
6	320051	2	Front wheel
7	320053	2	Dust cover
8	320054	4	Bearing cone
9	320056	4	Ball race
10	320055	4	Bearing cup
11	09450	2	M10 Selflock nut
12	320052	2	Hub cap
13	09365	10	M6 x 16 W'sh head screw
14	320012	1	Throwplate
15	330050	1	Height adjuster lever
16	320019	1	18" Cutterbar
17	1662	1	Woodruff key
18	4014	1	Distance piece
19	09116	1	3/8" UNF x 1.1/4" Bolt
20	09273	1	3/8" Spring washer S / C
21	09600	2	Pan head screw
22	09441	4	M8 Selflock nut 'T' type
23	09569	4	M8 x 45 Carriage bolt
24	234051	4	M8 Nut cap
25	320043	2	Lower handlebar clamp
26	322020	1	Connecting rod assembly
27	219036	2	Bearing moulding
28	320079	2	Pushfix
29	286002	1	Engine B & S Quantum 35
30	320022	1	Lower handlebar N / S
31	3966	2	Cable tie
32	320063	1	Throttle control & cable

Item No.	Part No.	No. Off	Description
33	320030	1	Grassbag assembly
34	226013	2	Hand wheel
35	226024	2	M8 x 45 Round head bolt
36	320014	1	Grass deflector
37	320021	1	Lower handlebar O / S
38	320048	2	Tube plug
39	320016	1	Deflector spring
40	320015	1	Hinge rod
41	330025	1	Bracket
42	320035	1	Front axle assembly
43	219036	2	Front axle bearing
44	219037	2	Retaining plate
45	09575	1	M6 x 20 W'sh head screw
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**CODE 320**  
**Fig. 2 REAR AXLE ASSEMBLY**



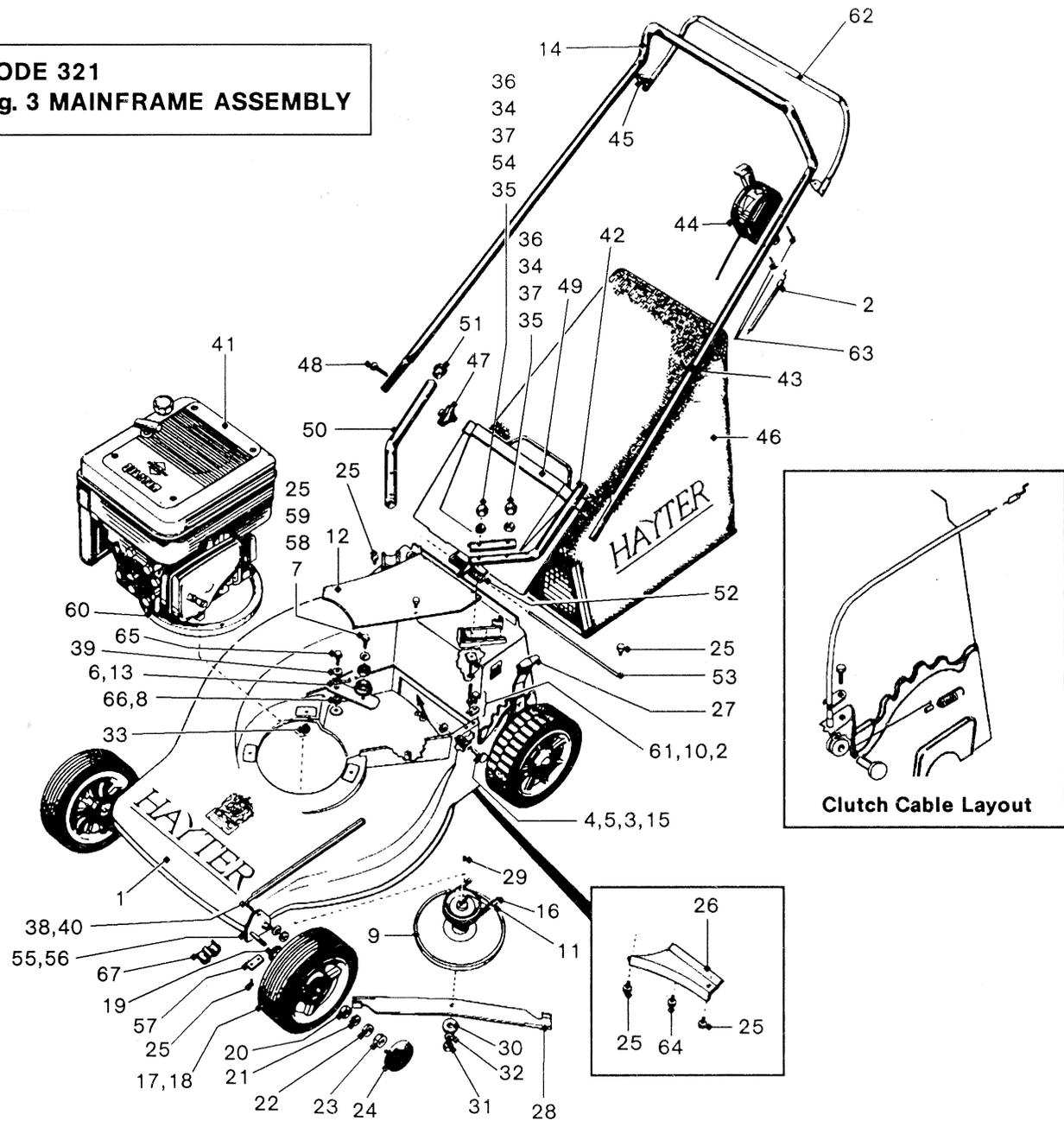
**Fig. 2 320 Rear Axle Assembly SPARE PARTS LIST**  
**(Subject to revision without notice)**

**HAYTERS**

Item No.	Part No.	No. Off	Description
1	09450	2	M10 Selflock nut
2			
3	09575	4	M6 x 20 W'sh hd. screw
4	320056	4	Ball race
5	300070	1	Spring
6	320040	1	Rear axle assembly
7	322020	1	Connecting rod assembly
8	320044	2	Rear axle retainer
9			
10	320046	2	Bearing half
11	320052	2	Hub cap
12	320054	4	Bearing cone
13	320055	4	Bearing cup
14	320061	2	Rear wheel
15	320079	1	Pushfix
16	330053	1	Lever knob
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18	320047	1	Rear axle c / w height adj. lever
19	320080	2	Axle backing plate
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Item No.	Part No.	No. Off	Description
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**CODE 321**  
**Fig. 3 MAINFRAME ASSEMBLY**



**Fig. 3 321 Mainframe Assembly SPARE PARTS LIST**  
**(Subject to revision without notice)**

**HAYTERS**

Item No.	Part No.	No. Off	Description
1	321010	1	Mainframe
2	321011	1	Clutch cable assembly
3	321012	1	Bush
4	321013	1	Clevis pin
5	321014	1	Cable guide
6	321069	1	Jockey arm assembly
7	321071	1	Jockey pulley assembly
8	321021	1	Spacer
9	321022	1	Friction disc assembly
10	321033	1	Cable retaining plate
11	321034	1	Spacer
12	320049	1	Transmission cover
13	321067	1	Torsion spring
14	321043	1	Upper handlebar assembly
15	321045	1	Spring retainer
16	321049	1	Vee belt
17	320050	2	Wheel complete ( front )
18	320051	2	Wheel ( front )
19	320053	2	Dust cover
20	320054	4	Bearing cone
21	320056	4	Ball race
22	320055	4	Bearing cup
23	09450	2	M10 Selflock nut
24	320052	4	Hub cap
25	09365	10	M6 x 16 Hex. w'sh head screw
26	320012	1	Throwplate
27	330050	1	Height adjuster lever
28	320019	1	18" Cutterbar
29	1662	1	Woodruff key
30	4014	1	Distance piece
31	09121	1	3/8" UNF x 2" Bolt
32	09373	1	3/8" Spring washer S / C

Item No.	Part No.	No. Off	Description
33	09591	3	3/8" UNC x 2" Taptite screw
34	09441	4	M8 Selflock nut 'T' type
35	09379	4	M8 x 40 Carriage bolt
36	234051	4	M8 Nut cap
37	320043	2	Lower handlebar clamp
38	320042	1	Connecting rod assembly
39	321070	1	Jockey arm pivot assembly
40	320079	1	Pushfix
41	286002	1	Engine B & S Quantum 35
42	320022	1	Lower handlebar N / S
43	3966	2	Cable tie
44	320063	1	Throttle control & cable
45	226034	2	5/16" Bush ( nylon )
46	320030	1	Grassbag assembly
47	226013	2	Hand wheel
48	226024	2	M8 x 45 Round head bolt
49	320014	1	Grass deflector
50	320021	1	Lower handlebar O / S
51	320048	2	Tube plug
52	320016	1	Grass deflector spring
53	320015	1	Hinge rod
54	330025	1	Bracket
55	320035	1	Front axle assembly
56	219036	2	Front axle bearing
57	219037	2	Retaining plate
58	6277	1	Bearing
59	09263	1	1/4" Plain washer
60	320011	1	Engine spacer
61	09546	1	M6 x 12 Hex. w'sh hd. screw
62	219090	1	Clutch lever
63	09600	2	Pan head screw
64	09575	1	M6 x 20 Hex. w'sh hd. screw

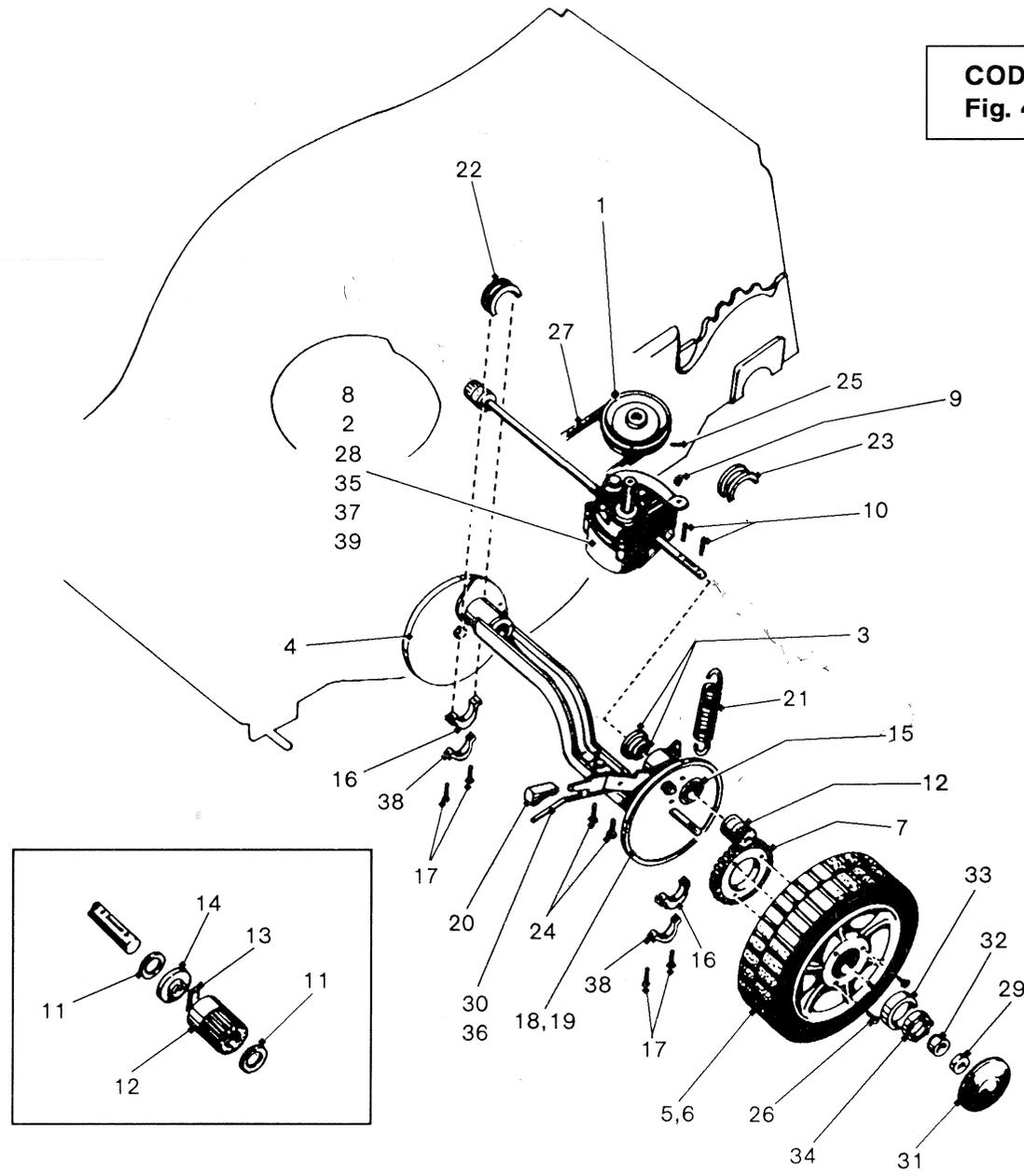
**Fig. 3 321 Mainframe Assembly SPARE PARTS LIST**  
**(Subject to revision without notice)**

**HAYTERS**

Item No.	Part No.	No. Off	Description
65	09622	1	M6 x 30 Pan hd.pozi screw
66	321060	2	Wavy spring washer
67	219036	2	Bearing moulding
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**CODE 321**  
**Fig. 4 REAR AXLE ASSEMBLY**



Parts List for Fig. 4  
 on following page.

**Fig. 4 321 Rear Axle Assembly SPARE PARTS LIST**  
**(Subject to revision without notice)**

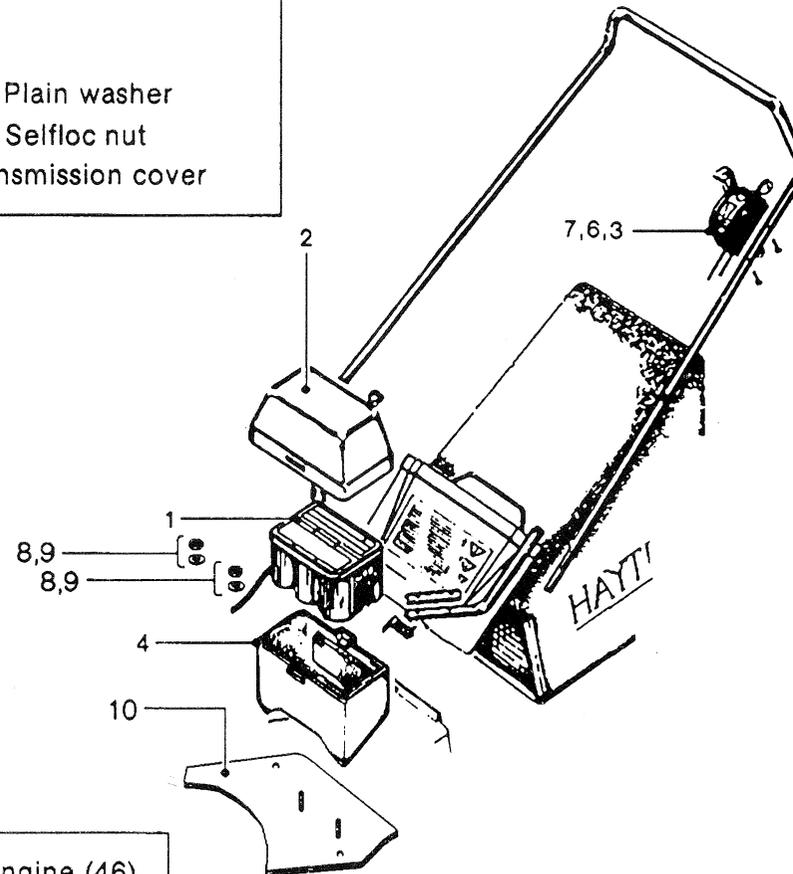
**HAYTERS**

Item No.	Part No.	No. Off	Description
1	321026	1	Pulley
2	321066	1	Torque arm bracket
3	321035	4	Half seal
4	321040	1	Rear axle assembly ( long )
5	321045	2	Rear wheel complete
6	321046	2	Rear wheel
7	321047	2	Gear
8	321050	1	Gearbox
9	321051	1	Woodruff key
10	321052	2	Roll pin
11	321053	4	Thrust washer
12	321054	2	Gear
13	321055	2	Pawl
14	321056	2	Spacer ( nylon )
15	321057	2	Bearing
16	320044	2	Rear axle retainer
17	09575	4	M6 x 20 Hex. w'sh hd. screw
18	331028	1	Rear axle N / S c / w :- height adjuster lever & cover
19	331025	1	Rear axle N / S
20	330053	1	Spring lever cover
21	300070	1	Compensator spring
22	320045	1	Bearing half O / S
23	320046	1	Bearing half N / S
24	3466	2	M8 x 16 Hex. hd. screw
25	09594	1	M6 x 6 Socket setscrew
26	09593	6	M6 x 35 C'sk. hd. screw
27	321049	1	Vee belt
28	09621	2	1/4' UNC x 1/2" Pozi screw
29	09450	2	M10 Selflock nut
30	322020	1	Connecting rod assembly
31	320052	2	Hub cap

Item No.	Part No.	No. Off	Description
32	320054	2	Beariing cone
33	320055	2	Bearing cup
34	320056	2	Ball race
35	09623	2	1/4" UNF x 5/8" Pan hd. setscrew
36			
37	09261	2	1/4" Plain washer
38	320080	2	Axle backing plate
39	09264	2	1/4" Spring washer S / C
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Item No.	Part No.	No. Off	Description
1	226005	1	Battery
2	226091	1	Battery Case Cover
3	332010	1	Throttle control & cable
4	226090	1	Battery Case Lower
5			
6	226002	1	Switch
7	226014	1	Wiring loom
CODE 323 ONLY			
8	09472	2	M6 Plain washer
9	09544	2	M6 Selfloc nut
10	323026	1	Transmission cover

**CODES 323 & 332**  
**Fig. 5 ELECTRIC START VARIANTS**



Not Shown		
323002	1	Tecumseh engine (46)
332044	1	Tecumseh engine (54)
226006	1	Charger

### WARNING NOTICE

(Issued in accordance with Asbestos Products (Safety) Regulations 1986)  
Certain components on this Mower, such as brake and clutch linings and some gaskets and joints, may contain a small quantity of asbestos.

When repairing and replacing these items care should be taken to:-

- 1) Carry out the repairs in a well ventilated area.
- 2) Remove dust by dampening down using a recommended liquid or water.
- 3) Dampen dust and place it in a properly closed receptacle.
- 4) Dispose of the receptacle safely.

If you are uncertain seek advice from your dealer.



Part Number 320002  
November 1989