Allett Mowers

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Regal
36" & 42"
36RHE3 & 42RHE3

INDEX

PAGE NO.	SECTION HEADING
1	SPECIFICATIONS
2	INTRODUCTION
3	PREPARING FOR USE
4	USE OF CONTROLS
5	SAFETY PRECAUTIONS
6	HYDROSTATIC TRANSMISSION RULES
7	STARTING THE ENGINE
8	USING THE MOWER
9	ADJUSTMENTS
10	SERVICE SCHEDULE
11	CLEANING & STORAGE
12	MAINFRAME ASSEMBLY PART NUMBERS
13	MAINFRAME ASSEMBLY DRAWINGS
14	DRIVE SHAFT & CONTROL ASSY. PART NUMBERS
15	DRIVE SHAFT & CONTROL ASSY. DRAWINGS
16	HYDRAULIC SYSTEM PART NUMBERS
17	HYDRAULIC SYSTEM DRAWINGS
18	CYLINDER DRIVE ASSEMBLY PART NUMBERS
19	CYLINDER DRIVE ASSEMBLY DRAWINGS
20	ROLLER DRIVE ASSEMBLY PART NUMBERS
21	ROLLER DRIVE ASSEMBLY DRAWINGS
22	REAR ROLLER ASSEMBLY PART NUMBERS
23	REAR ROLLER ASSEMBLY DRAWINGS
24	HANDLE BAR ASSEMBLY PART NUMBERS
25	HANDLE BAR ASSEMBLY DRAWINGS
26	GRASSBOX ASSEMBLY PART NUMBERS
27	GRASSBOX ASSEMBLY DRAWINGS
28	TRAILING SEAT PART NUMBERS
29	TRAILING SEAT DRAWINGS
30	TRAILING SEAT ASSEMBLY INSTRUCTIONS
33	TRAILING SEAT DIAGRAM, FASTENERS
34	TRAILING SEAT DIAGRAM, FASTENERS

Specifications

Cutting Width	914mm.(36")	1067mm.(42")
Overall width	1118mm.(44")	1270mm.(50")
Weight	352kg.(774lb)	376kg.(827lb)
Engine	Honda GX340	9.5hp @ 3600rpm
Transmission	Model 11 Eaton hydrostat. Operated via rods	
Overall height	1016mm. (40")	
Overall length	2083mm. (82")	
Rate of cut	Variable	
Height of cut	6.5mm to 44.5mm. (.25" to 1.75")	
Cutter Clutch	Handle mounted lever operating a tight and loose triple V belts via rods.	
Rear Roller	Three piece steel, rubber covered with full differential running in an oil bath.	
Front Roller	All steel on sealed bearings.	
Cylinder	6 bladed all welded, high carbon spring steel cylinder, hardened and tempered to 45 HRC. Mounted on greaseable bearings.	
Bottom Blade	Manufactured from EN8. Hardened and tempered to 45HRC.	
Grassbox	Rotationally moulded plastic with deflector hood and steel lifting bar.	
Power Steering	Rod operated brakes, fitted as standard.	
Options	Trailing seat.	

INTRODUCTION

Before operating the mower read this handbook carefully, ensuring that you know all the controls. Your ALLETT motor mower has been designed and built to the highest possible standards and will give long and satisfactory service providing the following instructions are carried out. If they are ignored costly repairs could result which are not covered by the Guarantee.

The Guarantee is to protect the owner against faulty material and workmanship during manufacture and not from the effects of wear and damage caused after purchase. Such damage can be unnecessarily accelerated by incorrect or inadequate maintenance. It is in the interest of the owner of the ALLETT motor mower to see that the instructions contained in this manual are carried out carefully.

The following items come under normal care and maintenance and are not covered by Guarantee: Cleaning and adjusting the carburettor. Cleaning the fuel system. Cleaning spark plugs. Adjusting cutters. Adjusting belts and chains.

Breakdowns due to: Incorrect maintenance. Incorrect adjustments. Neglect and misuse. Accidental damage.

The terms left-hand and right-hand refer to the machine when viewed from the operating position.

Please ensure your new machine warranty registration card has been correctly completed and signed.

Having retained your section, return the registration card to:

Allett Mowers,
C/O Turfmech Machinery Limited,
Hangar 5,
New Road,
Hixon,
Stafford, ST18 OPJ, UK.

Always use the Model and Serial numbers recorded when ordering spare parts.
Model .....
Serial No. .....

PREPARING FOR USE

OIL With the machine level fill the engine sump with SAE30 oil. Check the oil level with the dipstick provided. Ensure that no oil is spilt onto the rear roller as this will damage the rubber covering. Apply a few drops of light oil to the throttle cable and all other controls. Further information on the engine is provided in the manufacturers handbook.

FUEL Fill the tank with UNLEADED petrol. The engine is a four stroke unit and NO OIL SHOULD BE PUT IN THE FUEL TANK.

PETROL IS HIGHLY FLAMMABLE.

Add fuel before starting the engine. Avoid spilling petrol this can damage the rubber covering in the rear roller. Do not fill the petrol tank whilst the engine is running or whilst you are smoking. If petrol is spilled do not attempt to start the engine. Move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated. Store fuel in a cool place in a container specifically designed for the purpose.

CUTTING UNIT The cutting cylinder must always be adjusted to make light contact with the bottom blade. Too heavy a contact will cause premature wear and excessive load on the engine and transmission. Check adjustments before the machine is started. If necessary readjust the cutting cylinder following the instructions given on page 9.

Cutters are sharp! Mind your fingers.

RECOMMENDED LUBRICANTS

Hydrostatic Oil:	Grade 32 Hydraulic oil
Grease:	Use premium quality grease.

USE OF CONTROLS

The engine should not be started until you have read this section.

OPERATOR PRESENCE CONTROL BAR

This is located under the handle bar and must be held up to the handle bar before starting the engine and during use.

THROTTLE CONTROL This is located in the centre of the handle bar and should be set to maximum. (This is pre-set at the factory to 3000 rpm). The throttle should not be used to vary the speed of the mower this is done by the hydrostat control lever.

IGNITION SWITCH This is located on the right hand side of the handle bar. Before starting the engine move the switch to the **on** position. **To stop the engine, reduce engine speed and move switch to the off position or release the operator presence control.**

CUTTER CLUTCH This is located on the outside of the left hand side of the handle bar. To engage the cutter, pull the lever towards you. To disengage push the lever away from you.

HYDROSTAT CONTROL This is located in the centre of the handle bar. When using reverse, the lever is spring loaded to the neutral position for safety when operating in a confined space. To engage forward drive, push the lever upwards and to the left. Do this slowly as the smallest amount of movement will move the mower. The further the lever is moved the faster the mower will go. To stop the mower, return the lever to the neutral position. To reverse the mower, push the lever to the right. Again do this slowly. If the control is moved violently the mower will react accordingly.

POWER STEERING The levers are located parallel to the handle bar at both sides. The power steering works by braking, either the left hand or the right hand outer roller section. Pulling on the left hand brake lever will turn the mower to the left, and pulling on the right hand lever will turn it to the right. The harder you pull the tighter the mower will turn.

HAND BRAKE The hand brake lever is located on the right hand side of the handle bar, when pulled up and over centre it locks one side of the power steering.

This is for parking only, do not use whilst on the move!

SAFETY PRECAUTIONS

To ensure the safety of both operator and bystanders it is important that the following recommendations are adhered to.

1. Read the operators instruction book carefully. Know your controls.

2. Make sure that the area to be cut is free from sticks, stones and any other foreign bodies.

3. Visually inspect the machine before use to see that cylinder and bottom blade are not damaged.

4. Be sure that the machine is in a safe operating condition. Use only parts made and guaranteed by the manufacturer.

5. Ensure that the guards provided are always in use when mowing.

6. Do not operate the engine in a confined space where exhaust fumes (Carbon Monoxide) can collect.

7. Disengage the drive to the cutting cylinder before driving across any surface other than grass.

8. Do not allow children or people unfamiliar with these instructions to operate the mower at any time.

9. If the cutters have been damaged, have the damage repaired and the cutters reground by a competent engineer.

10. Do not operate the mower without the grass box. If you do not wish to collect the grass, put the box into the elevated position.

11. Check that the socket in the trailing seat is gripping the ball.

HYDROSTATIC TRANSMISSION RULES

1. Regularly check and top up transmission oil levels in the hydraulic tank.

2. Always use correct oil. Grade 32 Hydraulic.

3. Change the oil filter every 500 hours, or at the end of the season, which ever is the sooner.

4. Check belt for signs of wear.

5. Keep unit clean. Fins must be free of debris. Do not allow debris to enter oil tank.

6. Never shift from high speed forward to high speed, reverse or vice versa. Always slow down first.

STARTING THE ENGINE

Before starting the engine check the following:-

1. That the engine oil is up to the prescribed level on the dipstick.

2. That there is sufficient fuel in the petrol tank and the tap is turned on.

3. That the cutter clutch lever is in the disengaged position.

4. That the hydrostat control lever is in the neutral position.

5. That both the ignition switch on the engine and the one on the handles are turned on.

Now start the engine as follows:-

Set the throttle control lever, on the right hand side of the handlebar, to about the half throttle position.

Close the choke fully if the engine is cold.

Hold up the operator presence control to the handle bar, and either engage the electric starter or pull the recoil starter.

Once the engine has started, move the choke control to the centre, after allowing a few minutes to warm up, open the choke control completely.

Never run the engine with the choke closed after it has warmed up.

USING THE MOWER

After checking the cutting height, cutting cylinder adjustment and the fuel and oil levels, start the engine as described on page 7. Allow a few moments for the engine to warm up then, with the engine set a little above tick over, slowly move the hydrostat control lever towards you. The mower will then travel forward. The further you move the lever, the faster the mower will go. To slow down, push the lever away from you. You will arrive at the neutral position and the mower will stop. Go past the neutral position for reverse.

To engage the cutters pull up the lever on the left hand side of the handlebar. To disengage push the lever back down. The cutters may be either engaged or disengaged at any time whether the mower is moving or not.

The power steering is operated by two levers, on the handlebar one on the left and one on the right of the twist grip. Pull the left lever to turn left and the right lever to turn right. The harder you pull, the tighter the mower will turn.

Once familiar with the controls, open the throttle lever to the required speed and start mowing. The throttle should not be used to vary the speed of the mower this is done by the lever which controls the hydrostat.

NOTE: In the event of striking a solid object with the cutters, disengage the cutters, stop the engine and inspect for damage. Any damaged parts should be repaired or replaced by a competent engineer before proceeding.

THE CUTTERS WILL CONTINUE TO REVOLVE FOR A FEW MOMENTS AFTER THE CUTTER CLUTCH HAS BEEN DISENGAGED.

ADJUSTMENTS

Before working on the mower or carrying out any adjustments:-
STOP THE ENGINE AND RELEASE THE CUTTER CLUTCH.
TAKE CARE NOT TO TRAP YOUR FINGERS IN THE BLADES.

CUTTER ADJUSTMENTS Rotate the cutting cylinder slowly by hand, checking that each blade lightly touches the bottom blade along its full length. This can be checked by cutting paper along the length of the blade. If necessary, to compensate for wear and tear on the cutters, the bottom blade can be adjusted by the two adjuster screws on inside of the side plates above the cylinder, by turning the adjuster ANTI - CLOCKWISE to bring the blades closer together, and CLOCKWISE to take them further apart. Do not adjust the cutters too tightly together. This does no good at all and causes excess noise and undue wear to the blades.

FRONT ROLLER ALIGNMENT Check that the front roller is parallel to the bottom blade. If not, adjust the right hand end of the front roller by means of the set screw. After adjustment, re-tighten the lock nuts and the clamping bolt.

HEIGHT ADJUSTMENT First slacken the securing bolt at the bottom of the adjuster, then adjust to the required height by turning the head of the adjuster screw with a spanner (clockwise for shorter cut, anticlockwise for longer cut) then re-tighten the securing bolt.

CHAIN ADJUSTMENT Remove the chain case and check that both chains have approximately 9mm of movement at right angles to their travel on the slack side. If adjustment is necessary to both chains adjust the lower or secondary chain first, by slackening the locking nut at the back of the compound sprocket, then turning the nut on the front of the compound sprocket, which moves the sprocket up and down on an eccentric. Having achieved the desired setting re-tighten the locking nut at the back with one spanner whilst holding the adjusting nut at the front in place with another. The top or primary chain is adjusted by a nylon tensioner mounted on a slotted bracket, slacken the clamping bolt, adjust and re-tighten.

BELT ADJUSTMENT Ensure that the belt is the correct tension when the clutch is engaged and that the belt is clear of all the belt guides. Also check that the belt is clear of the top pulley when the clutch is disengaged. The belts are adjusted by lengthening or shortening the rod above the chain case.

Do not over tension the belts, tight enough and no more.

SERVICE SCHEDULE

DAILY When in regular use or every 10 hours.

1. Check cutters and adjust if necessary.
2. Check engine for oil and top up if necessary.
3. Shake dust from air filter.

WEEKLY When in regular use or every 50 hours.

1. Check belt and chain adjustment and ensure chains are properly lubricated. Spray chains with lubricant or paint with gear oil.
2. Lubricate all controls with engine oil.
3. Check battery (electric start models only), top up with distilled water if necessary.
4. Check oil level in Hydraulic tank. If low, top up with clean, Grade 32 Hydraulic oil. The importance of the correct grade of clean oil cannot be over emphasised. Externally the Hydrostat should be kept clean to assist cooling. If the oil becomes discoloured, drain and refill with clean Grade 32 Hydraulic oil. Do not put any other oil in the Hydraulic tank.

MONTHLY When in regular use or every 200 hours.

1. Check battery connections (electric start models only).
2. Check all screws for tightness.
3. Remove engine cowling and remove dirt and grass from fins, then replace cowling. This is important otherwise the engine will overheat and cause damage.
4. Examine the trailing seat connection to the ball coupling. Grease ball and socket.
5. Renew air filter.

ENGINE For all engine maintenance and checks please refer to the engine manual.

BATTERY Negative earth Keep the terminals clean and tight and lightly smeared with petroleum jelly. Top up with distilled water only when necessary and do not overfill.

CLEANING AND STORAGE

It must be remembered that grass cutting is a dirty job, and regular cleaning will extend the life of your machine.

Keeping the air filter free of grass and dust is most important. A pre-cleaner is fitted to help in this direction, if you remove the rubbish from the pre-cleaner regularly the air filter element will have a much better chance of doing it's job properly. Even so the element needs to be changed on a regular basis, the engine manufacturer's handbook will give more details.

The cooling fins of the engine must also be kept clear. If grass clippings are allowed to accumulate in this area the engine will overheat, causing expensive problems with pistons and valves in particular. A short engine life will be the result. To clean the cooling fins remove the engine cowling and use a hosepipe to flush out the fins all around and on top of the engine. The cooling fins on the hydrostat must also be kept clear, remove transmission tunnel and use a hosepipe to flush out the fins.

Whilst the hose is out, wash off the rest of the mower. Then dry it with a cloth and lubricate all adjusting threads, pivot points, cables and the edges of the cutting cylinder with an Oil Can. This will make every thing so much easier when the mower is next used.

When storing the machine for long periods leave the engine on compression. This will prevent the valves sticking in their guides, to achieve this gently pull the recoil starter until you feel the resistance of the compression stroke. Periodically during the winter start the engine and allow to run for a few minutes. **Do this in the open, not in the shed.** After stopping the engine put it back on the compression stroke.

The battery should be removed from electric start models, and charged occasionally during long periods of storage.

FIGURE 1 MAINFRAME ASSEMBLY

ITEM NO		PART 36"	PART 42"
1	Chassis	AFK201	AFK202
2	Engine	GH340	
3	Battery Clamp	AFK1414	
4	M6 x 16 Set Screw	SM616	
5	M6 Spring Washer	SWM6	
6	Battery	AM81475	
7	Delivery Plate Bracket	AFK1029	AFK1031
8	M6 Plain Washer	WM6	
9	M6 Nyloc Nut	NM6	
10	M6 x 16 Mushroom Head Screw	S11060	
11	Delivery Plate	AFK1030	AFK1032
12	Bottom Blade Carrier	AFK022	AFK110
Complete	Cutter Adjuster Assembly L/H	AFK004	
Complete	Cutter Adjuster Assembly R/H	AFK105	
13	Cutter Adjuster Fork	AFK1036	
14	10mm Roll Pin	AM89341	
15	M6 Grub Screw	S11055	
16	Cutter Adjuster Locking Collar	AFK1035	
17	1/2" Belleville Washer	W11029	
18	3/8"UNF x 3/4" Set Screw	S11011	
19	M10 Spring Washer	SWM10	
20	Cutter Adjuster Anchor Block L/H	AFK1034	
Not Shown	Cutter Adjuster Anchor Block R/H	AFK1095	
21	Cutter Adjuster Screw	AFK1033	
Complete	Height Adjuster Assembly	AFK027	
22	Height Adjuster Boss	AFK1067	
23	Height Adjuster Bar	AFK1066	
24	1/2" UNF Nyloc Nut	N11001	
25	1/2" Plain Washer	W11014	
26	Height Adjuster Screw	AFK1063	
27	1/2" Belleville Washer	W11029	
28	Height Adjuster Anchor	AFK115	
29	Height Adjuster Locking Collar	AFK1065	
30	M6 Grub Screw	S11055	
31	1/2"UNF x 2 1/2" Bolt	B11006	
32	Height Adjuster Plate	AFK058	
Complete	Front Roller/Carrier Assembly	AFK080	AFK081
Complete	Front Roller/Shaft Assembly	AFK064	AFK065
33	1/2"UNF x 1 1/4" Cap Screw	S11022	
34	7/8" Bronze Bush	AM82118	
35	Front Roller Carrier Shaft	AFK1196	AFK1197
36	Front Roller Carrier	AFK010	AFK078
37	M6 Nut	NM6	
38	M6 x 25 Set screw	SM625	
39	1/2"UNF x 1 1/2" Set screw	S11019	
40	Front Roller	AFK018	AFK108
41	Front Roller Bearing	AM85314	
42	Front Roller Shaft	AFK1135	AFK1136
Complete	Cutting Cylinder Assembly	AFK083	AFK084
43	Cutting Cylinder	AM81457	AM94030
44	Bottom Blade	AM82109	AM92084
45	Bottom Blade Screw	S11032	
46	M8 x 40 Set Screw	SM840	
47	Cylinder Bearing	AM8101	
48	1/2"UNF x 1" Set Screw	S11018	
49	M12 x 25 Set Screw	SM1225	
50	Deflector	AFK234	

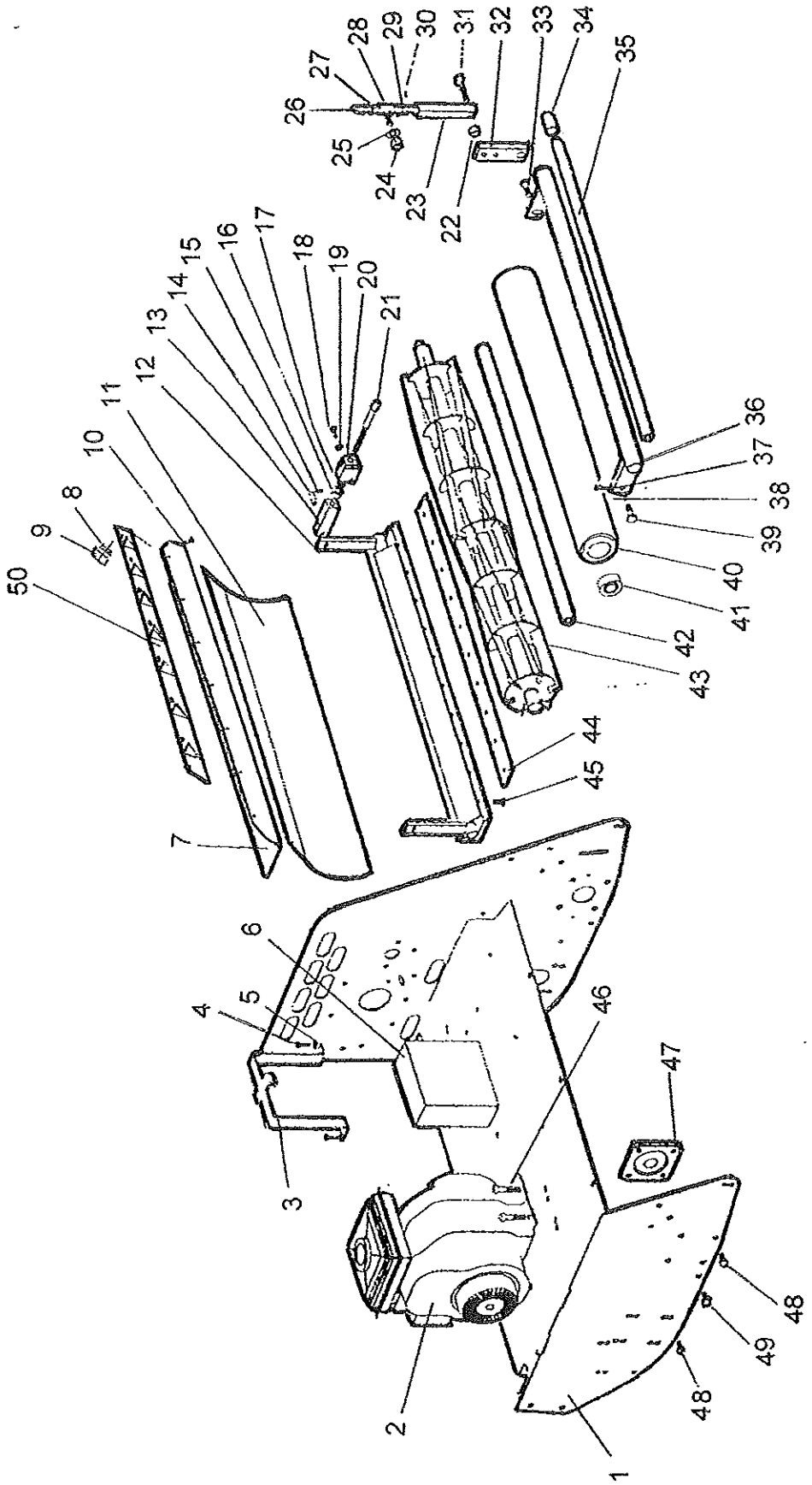


FIGURE 1 MAINFRAME ASSEMBLY

FIGURE 2 DRIVE SHAFT & CONTROL ASSEMBLY

ITEM NO		PART 36"	PART 42"
1	Coupling engine	AFK1417	
2	Coupling Insert	AM90028	
3	Coupling Shaft	AFK1418	
4	Key	AM81012	
5	Cylinder Drive Shaft	AFK1415	AFK1419
6	Key	AM81112	
7	1" x 3/8UNF Set Screw	S11014	
8	M10 Spring Washer Washer	SWM10	
9	M10 Plain Washer	WM10G	
10	Hydrostat Drive Belt	AM81105	
11	Drive Pulley	AFK1329	
12	Shaft Retaining Plate	AFK1311	
13	25mm Flange Unit	AM81009	
14	M12 Nyloc Nut	NM12	
15	M12 Plain Washer	WM12	
16	M8 x 25 Set Screw	M825	
17	M8 Spring Washer	SWM8	
18	M8 Plain Washer	WM8G	
19	Spacer Kit 2 Parts	AFK1354 & AFK1355	
20	Bearing	AM82104	
21	Spacer	AFK1332	
22	Tensioner Pulley	AFK1333	
23	M12 x 75 Bolt	BM1275	
24	Woodruff Key	AM81113	
25	Hydrostat Pulley	AFK1330	
26	Hydrostat Fan Spacer	AFK1324	
27	Fan	AM87456	
28	Fan Bracing Plate	AFK1338	
29	M6 Plain Washer	WM6	
30	M6 Spring Washer	SWM6	
31	M6 x 45 Set Screw	M645	
32	M6 Nut	NM6	
33	M6 x 45 Set Screw	M645	
34	Hydrostat Pivot	AFK208	
35	Woodruff Key	K5-5	
36	1 x 1/4 UNF Set Screw	S11012	
37	Hydrostat Control Rod Assembly	AFK225	
38	Spring	AM81115	
39	Drive Clutch Swivel	AFK206	
40	M12 x 75 Bolt	BM1275	
41	M12 Plain Washer	WM12G	
42	Drive Clutch Swivel Boss	AFK1207	
43	3/4 Bronze Bush	AM81084	
44	M12 Nyloc Nut	NNM12	
45	1/4 UNF Nyloc Nut	N11004	
49	1 3/4 x 1/4 UNC Set Screw	S11079	
50	1/4 Spring Washer	W11031	
51	Engine Spacer	AFK1416	

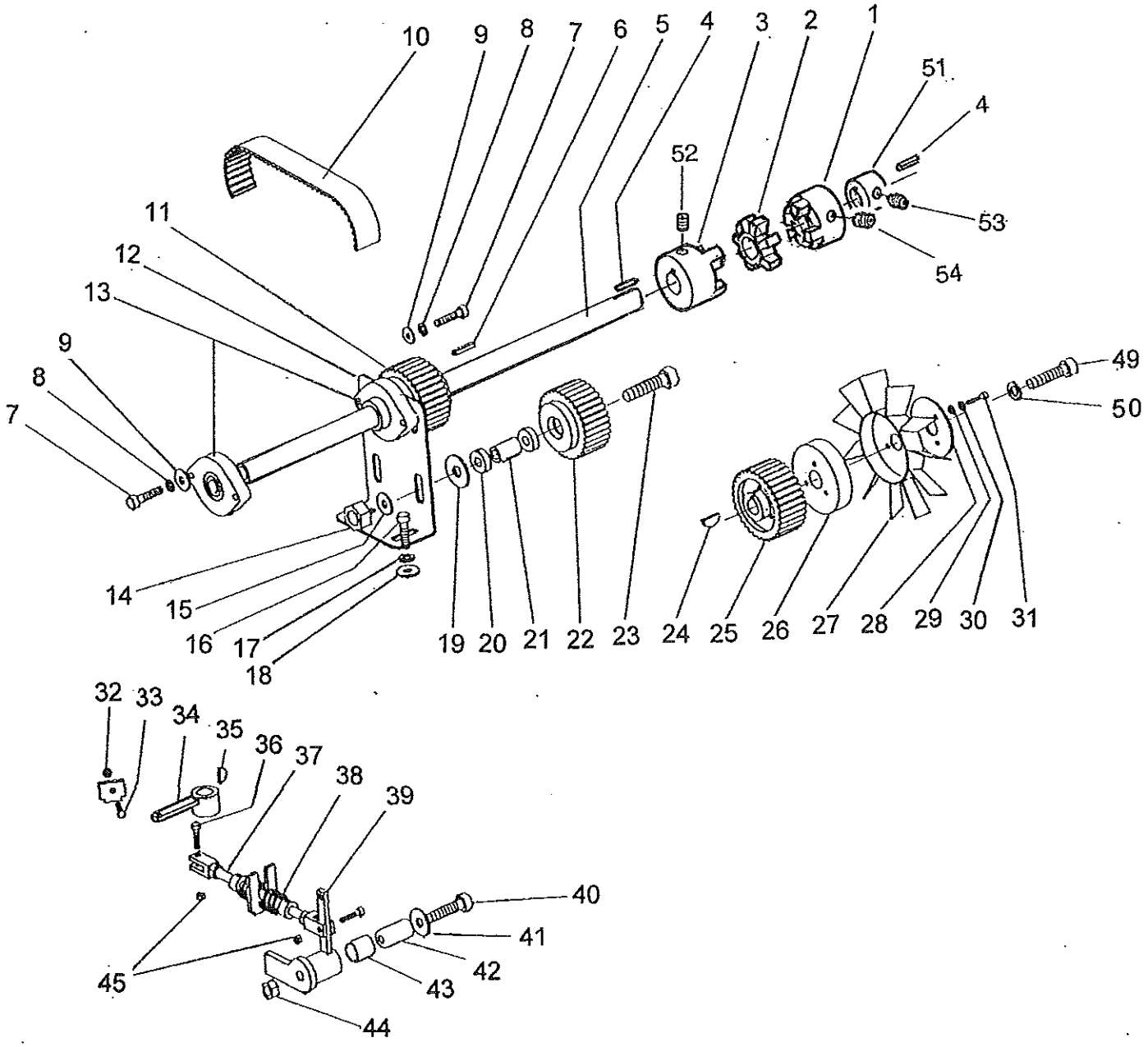


FIGURE 2 DRIVE SHAFT & CONTROL ASSEMBLY

FIGURE 3 HYDRAULIC SYSTEM

ITEM NO		PART NO
1	Filler Breather	AM81099
2	M8 x 20 Set Screw	SM820
3	M8 Washer	WM8
4	Oil Tank	AFK203
5	Hose, Tank To H ydro Bottom	AFK222
6	Hydrostat	AM81097
7	Hydrostat Mounting Boss	AFK1334
8	3/8UNF x 1 C/Screw	S11010
9	M10 Spring Washer	SWM10
10	3/8UNF x 1 Set Screw	S11014
11	Hose, Filter To Hydrostat	AFK223
12	Oil Filter Assy	AM81100
	Oil Filter Element	AM81100/E
13	M6 Nyloc Nut	NNM6
14	Oil Filter Bracket	AFK1304
15	M6 x 20C Screw	SCM620
16	M6 x 20Set Screw	SM620
17	M6 Plain Washer	WM6
18	Hose, Hydrostat To Oil Filter	AFK220
19	Hose, Hydrostat To Tank	AFK221
20	3/8 UNF x 2 3/4 Set Screw	S11075

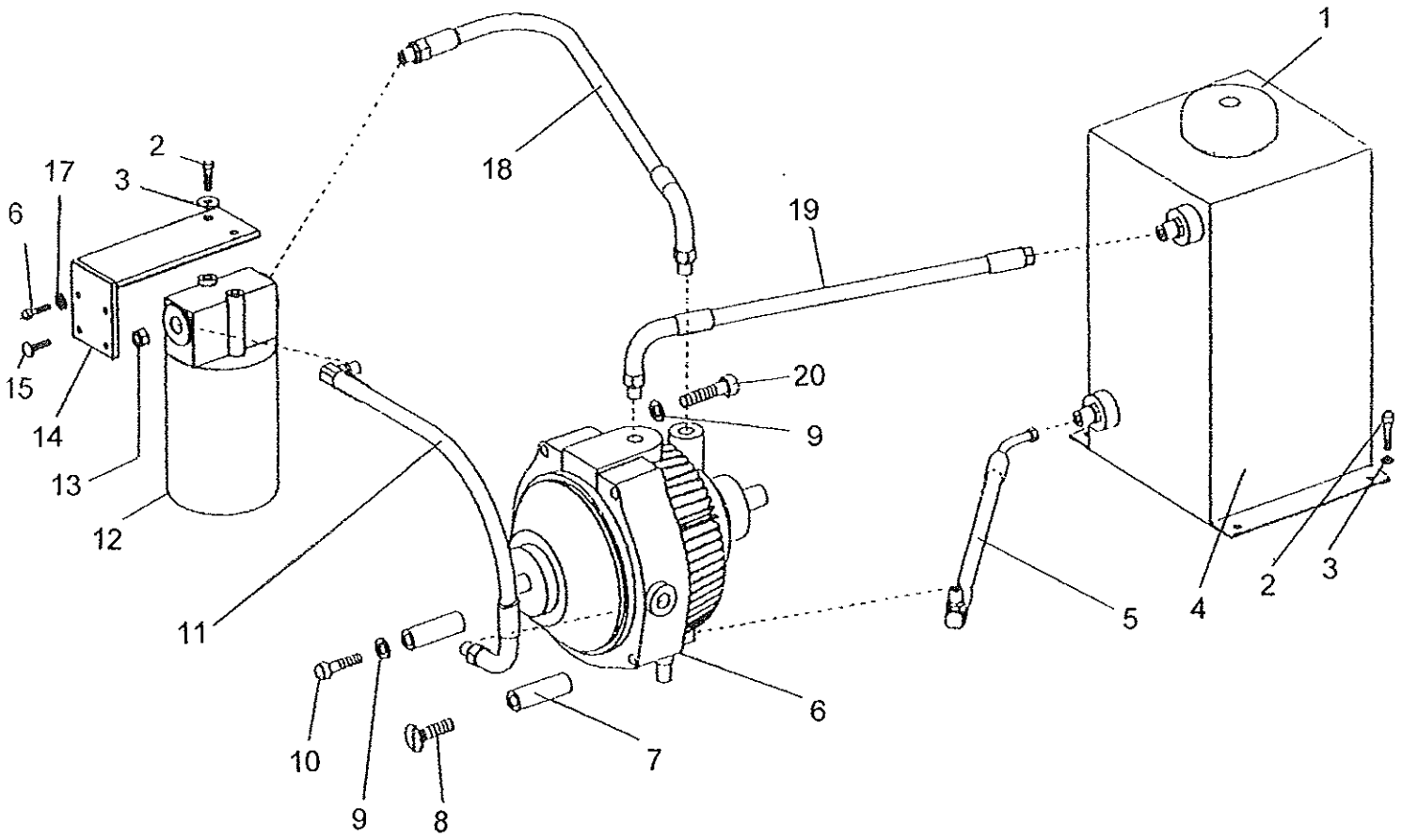


FIGURE 3 HYDRAULIC SYSTEM

FIGURE 4 CYLINDER DRIVE ASSEMBLY

ITEM NO		PART NO
1	3/8"UNF x 1" Set Screw	S11014
2	Pulley (Cylinder Primary Drive)	AM90184
3	3/4" Bronze Bush	AM81084
4	Lower Cutter Clutch Rod Assembly	AFK124
5	M12 Nyloc Nut	NNM12
6	M12 Plain Washer	WM12C
7	3/4" Bronze Bush	AM81084
8	Cutter Clutch Swivel	AFK044
9	Drive Clutch Swivel Boss	AFK1207
10	M12 x 65 Bolt	BM1275
11	1/2" plain Washer	W11014
12	M12 x 25 Set Screw	SM1225
13	M10 Plain Washer	WM10C
14	M10 x 25 Set Screw	SM1025
15	Belt Guide Column	AFK1208
16	Belt Guide	AFK006
17	M12 x 30 Set Screw	SM1230
18	Bearing	AM81007
19	Belt Guide	AFK1131
20	M8 x 80 Bolt	BM880
21	Lower Belt Guide	AFK042
22	Cutter Clutch Belt	AM90140
23	3/4" BSF Half Nut	N11013
24	Cylinder Pulley	AM90180
25	Woodruff Key	AM82165
26	Cylinder distance Piece	AFK1229
27	Jockey Pulley	AM90182
28	3/8"UNF x 1 1/2" (Special Screw)	AFK1145
29	M10 Plain Washer	WM10G
30	Clutch Arm Pivot	AFK1210
31	3/8" UNF Nyloc Nut	N11002
32	Belt Clutch Arm	AFK012
33	Jockey Wheel (Upper)	AFK003
34	3/8" UNF x 1" CKS Screw	S11010
35	25mm Flange Unit	AM81009

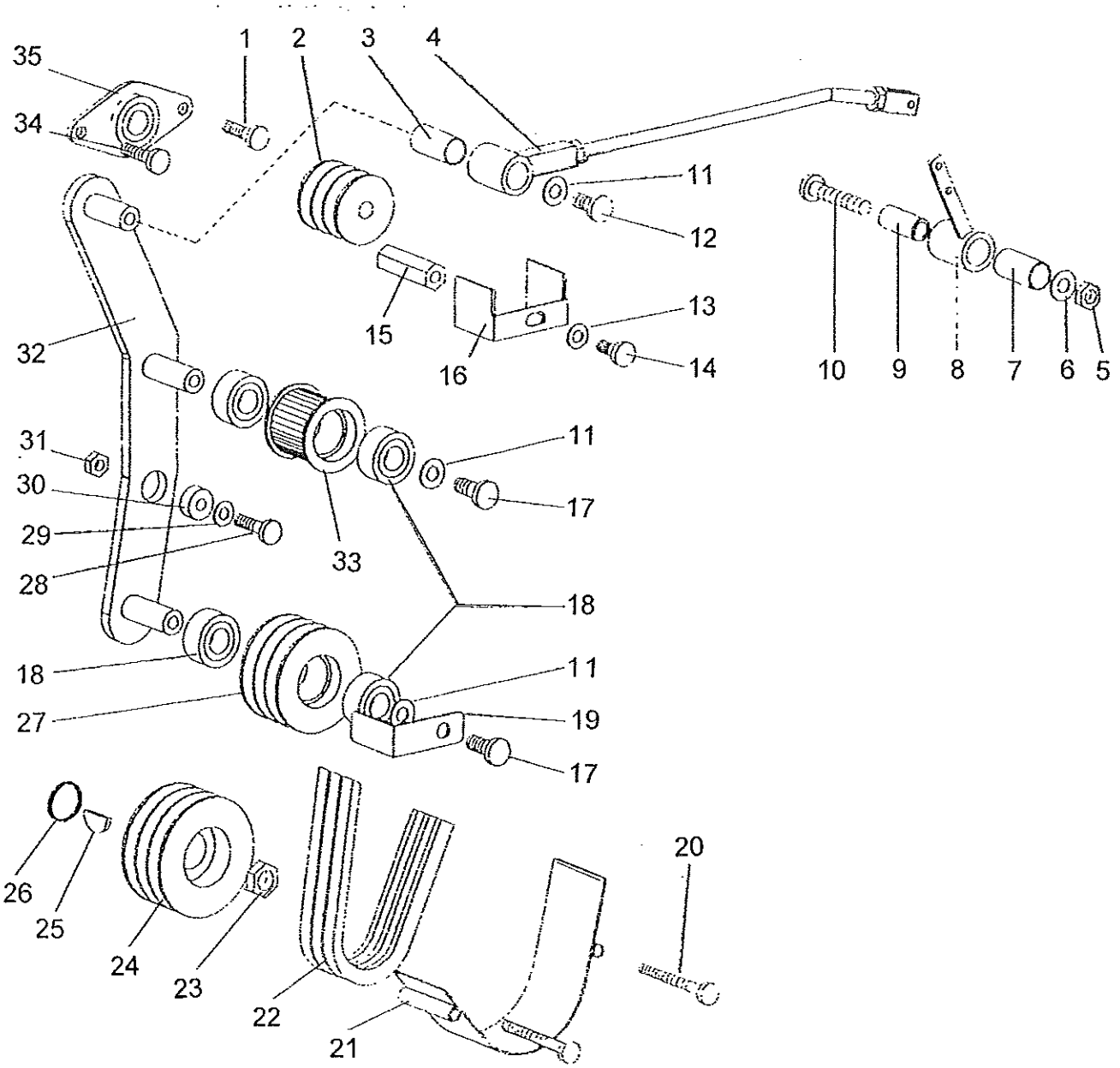


FIGURE 4 CYLINDER DRIVE ASSEMBLY

FIGURE 5 ROLLER DRIVE ASSEMBLY

ITEM NO		PART NO
6	1/2" UNF Nyloc Nut	N11001
7	1/2" Plain Washer	AC139
8	Compound Eccentric (see below)	AFK056
	Item 8 Requires Stud (Loctite in place)	AFK1110
9	Chain Tensioner Sleeve	AFK1116
10	3/8"UNF x 3/4" Set Screw	S11011
11	Adjuster Boss	AFK1127
12	Chain Tensioner Bracket	AFK029
13	M10 Plain Washer	WM10
14	M10 Spring Washer	SWM10
15	Primary Drive Sprocket	AFK1335
16	Woodruff Key	K5-5
17	Primary Drive Chain	AM81119
18	Compound Bearing Small	AM82104
19	M10 Plain Washer	WM10
20	M10 Spring Washer	SWM10
21	3/8"UNF x 3/4" Set Screw	S11011
22	Final Drive Chain	AM90214
23	M20 Nut	NM20
24	Woodruff Key	AM82165
25	Rear Roller Sprocket	AFK062
26	Compound sprocket	AFK057
27	Compound Bearing Large	AM82323
Complete	Compound Sprocket Assembly	AFK133

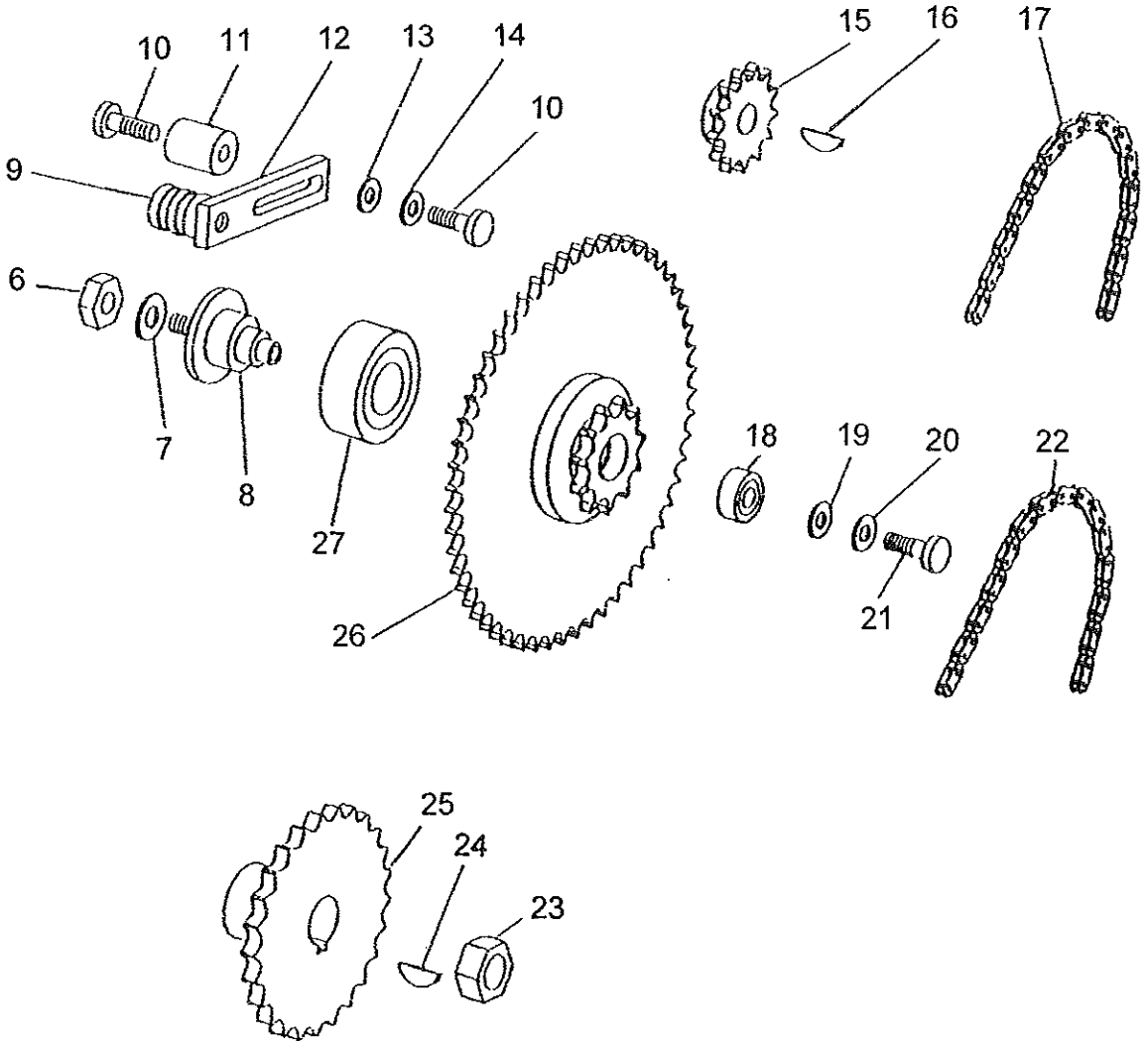


FIGURE 5 ROLLER DRIVE ASSEMBLY

FIGURE 6 REAR ROLLER ASSEMBLY

ITEM NO		Part 36"	Part 42"
Complete	Rear Roller Assembly	AFK131	AFK132
1	Planet Pinion	AFK1154	
2	M6 Grub Screw	ACGM6	
3	Circlip	AM82176	
4	Spacer	AFK1199	
5	7/8" Bronze Bush	AM82118	
6	Centre Section & Shaft	AFK038	AFK121
7	Parallel Key	AM83273	
8	Double Diff Shaft & Gear	AFK141	
9	Single Diff Shaft & Gear	AFK142	
10	Woodruff Key	AM82165	
11	20mm Nut	NM20	
12	Inner Roller Collar	AFK013	
13	Oil Seal Housing	AFK1149	
14	Oil Seal	AM81053	
15	1 1/8" Flange Unit	AM81010	
16	M8 x 80 Bolt	BM880	
17	Brake Band	AFK021	
18	8mm Spring Washer	SWM8	
19	Outer Roller Collar	AFK055	
20	Locking Collar Screw	BSG1047	
21	40mm Bearing	AM82105	
22	Outer Roller Section	AFK113	AFK114
23	Ring Gear	AFK040	
24	M8 x 30 Set Screw	SM830	
25	Sealing Band	AFK1228	

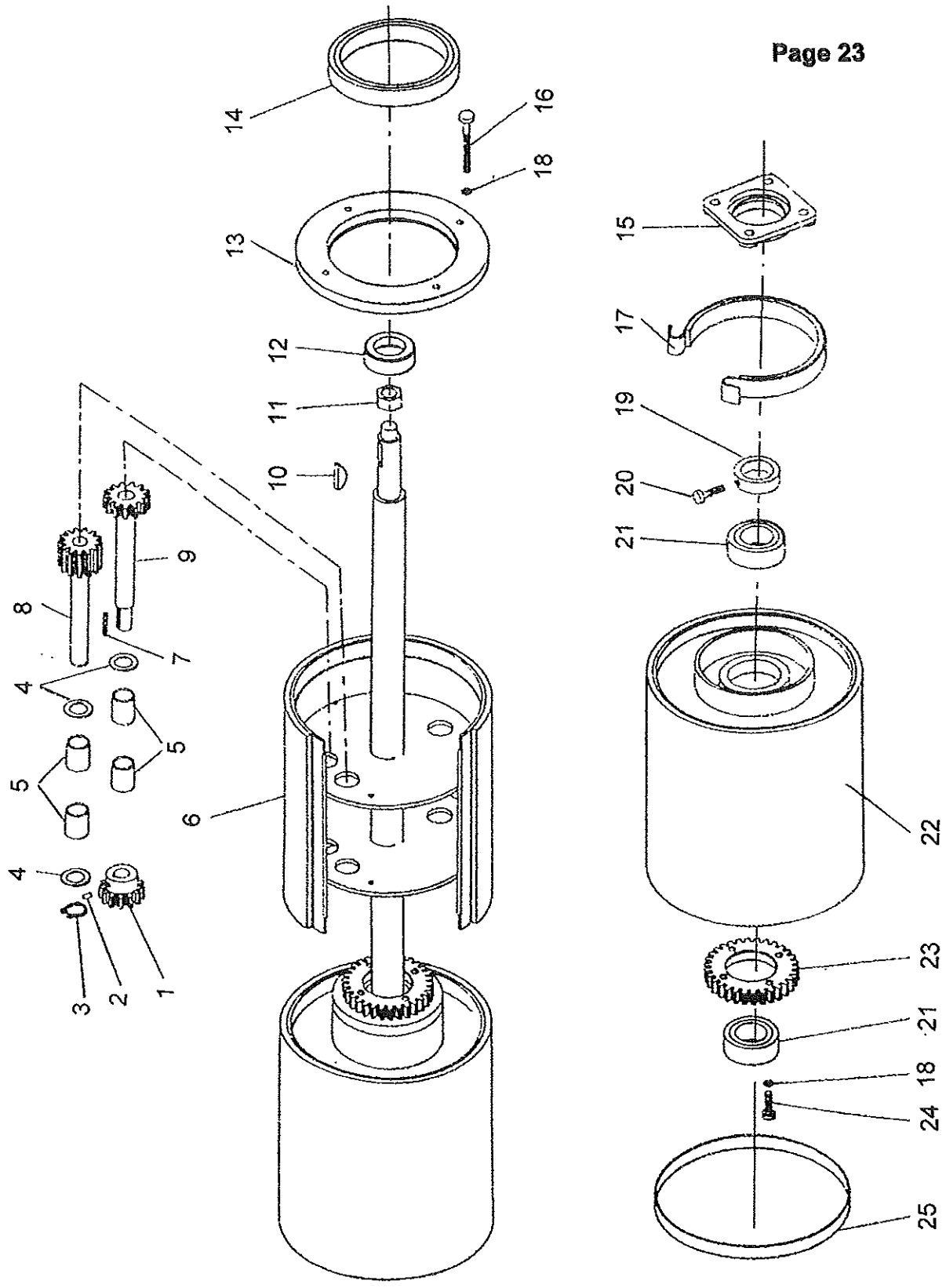


FIGURE 6 REAR ROLLER ASSEMBLY

FIGURE 7 HANDLEBAR ASSEMBLY

ITEM NO		Part 36"	Part 42"
1	Safety Handle Fab	AFK217	AFK218
2	M6 Washer	WM6C	
3	M6 x 12 Set Screw	SM612	
4	M6 Nyloc Nut	NNM6	
5	M6 Washer	WM6	
6	Microswitch	AFK097	
7	On / Off Switch	AM85043	
8	Wiring Loom (Electric start)	AFK224	
	Wiring Loom (Recoil start)	AFK161	
9	Throttle Lever	AM82177	
10	Throttle Cable	AM89500	
	Throttle cable June99>	AFK1366	
11	Spring Washer M6	SWM6	
12	M6 x 12 Set Screw	SM612	
13	1/2"UNF x 1 1/2" Set Screw	S11019	
14	M10 Plain Washer	WM10C	
15	Power Steering Rod	AFK122	
16	Power Steering Swivel Boss	AFK1202	
17	3/4" Bronze Bush	AM81084	
18	M10 Nyloc Nut	NNM10	
19	Brake Swivel	AFK016	
20	Power Steering Anchor	AFK026	
21	Brake Swivel Pillar	AFK1046	
22	1 x ¼ UNF Set Screw	S11019	
23	1/4 UNF Nyloc Nut	N11004	
24	Spring	AM87123	
25	M6 x 6 Grub Screw	ACMG6	
26	Hand Brake Rod Assy	AFK207	
27	Hand BrakePlate Fab	AFK211	
28	Knob	AM87264	
29	3/4" Bronze Bush	AM81084	
30	Cutter Clutch Lever	AFK210	
31	M10 Plain Washer	WM10C	
32	3/8"UNF x 1" Set Screw	S11014	
33	Cutter Clutch Rod	AFK126	
34	Hydrostat ControlLever	AFK1371	
35	M8 nut	NM8	
36	Knob	AM87264	
37	M8 washer	WM8	
38	M8 screw		
39	Hydro Control Cable	AFK1367	
40	Hydro Control Cover	AFK1368	
41	M6 Screw		
42	Handle Bar (Bare)	AFK232	AFK236
	Handle Bar Assy	AFK233	AFK237
43	Steering Handle	AFK1020	
44	Grip	AM81059	

Parts not shown
Hydro control spring ACS007
Bolt S11061
Spring tension bracket AFK1373
Yoke BSG1024

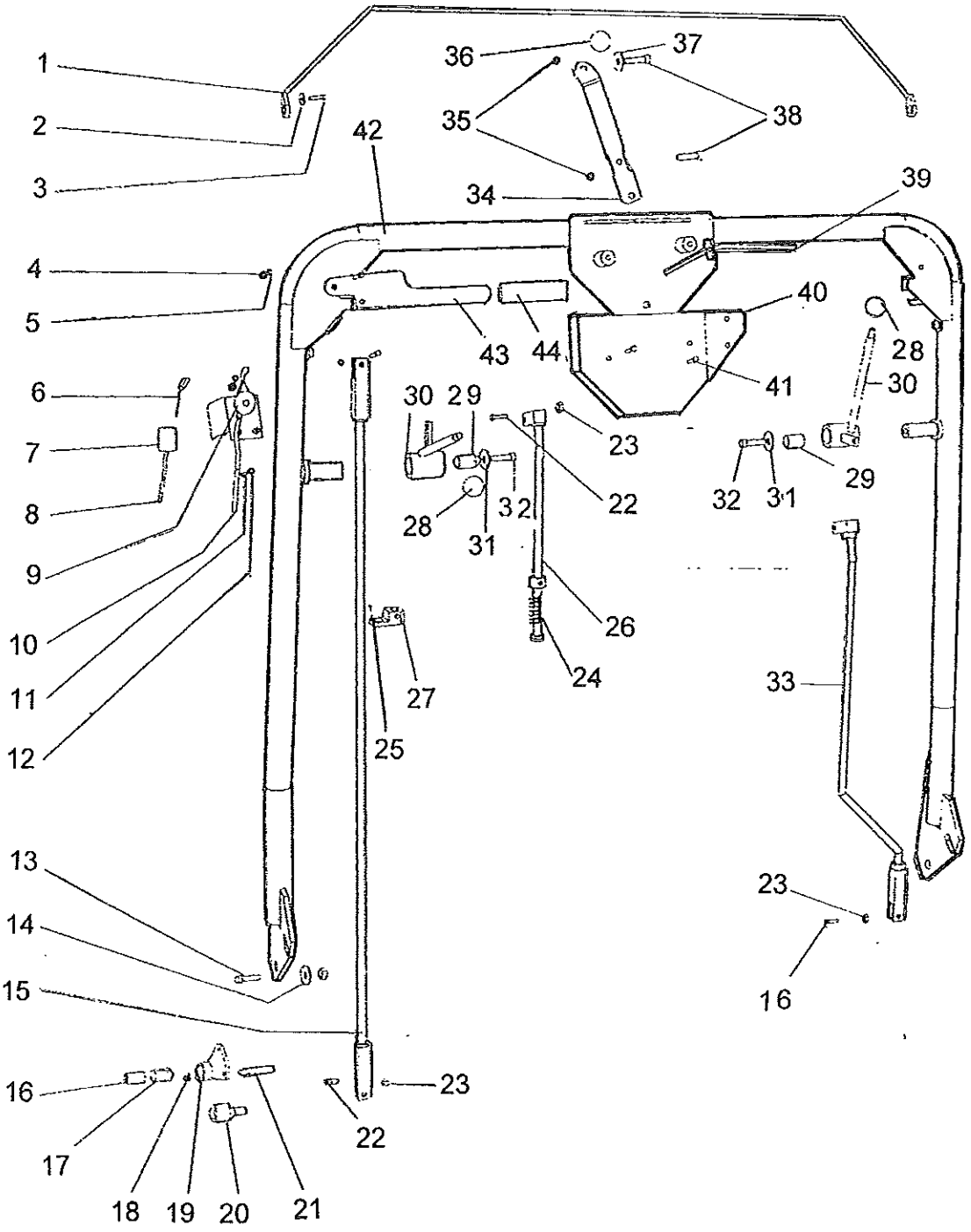


FIGURE 7 HANDLEBAR ASSEMBLY

FIGURE 8 GRASSBOX ASSEMBLY & GUARDS

ITEM NO		PART 36"	PART 42"
1	M6 x 20 Set Screw	SM620	
2	M6 Spring Washer	SWM6	
3	M6 Plain Washer	WM6G	
4	Tunnel Guard	AFK204	AFK205
5	Chain Case	AFK002	
6	M8 Plain Washer	WM8	
7	M8 Nyloc Nut	NNM8	
8	M10 x 25 Set Screw	SM1025	
9	M10 Spring Washer	SWM10	
Complete	Grassbox Assembly	AFK070	AFK071
10	Grassbox Hood Arm	AFK1128	
11	Grassbox Hood Shaft	AFK1117	AFK1115
12	Grassbox Bracket	AFK034	
13	Grassbox Arm Bracket	AFK1050	
14	Grassbox Lifter (Short)	AFK1051	
15	M6 Nyloc Nut	NNM6	
16	M6 Plain Washer	WM6G	
17	M6 x 25 Mushroom Head Screw	S11061	
18	1/2" x 1" UNF Set Screw	S11018	
19	Spacer	BSG1085	
20	Grassbox Arm	AFK017	
21	3/4" Bronze Bush	AM82546	
22	Grassbox Pivot	AFK025	
23	Grassbox	AM82142	AM81057
24	Label ALLETT (Large)	AM81032	
25	Grassbox Lifter (Long)	AFK1052	
26	Grassbox Hood Reinforcing	AFK1229	
27	Grassbox Hood	AM81132	AM81058

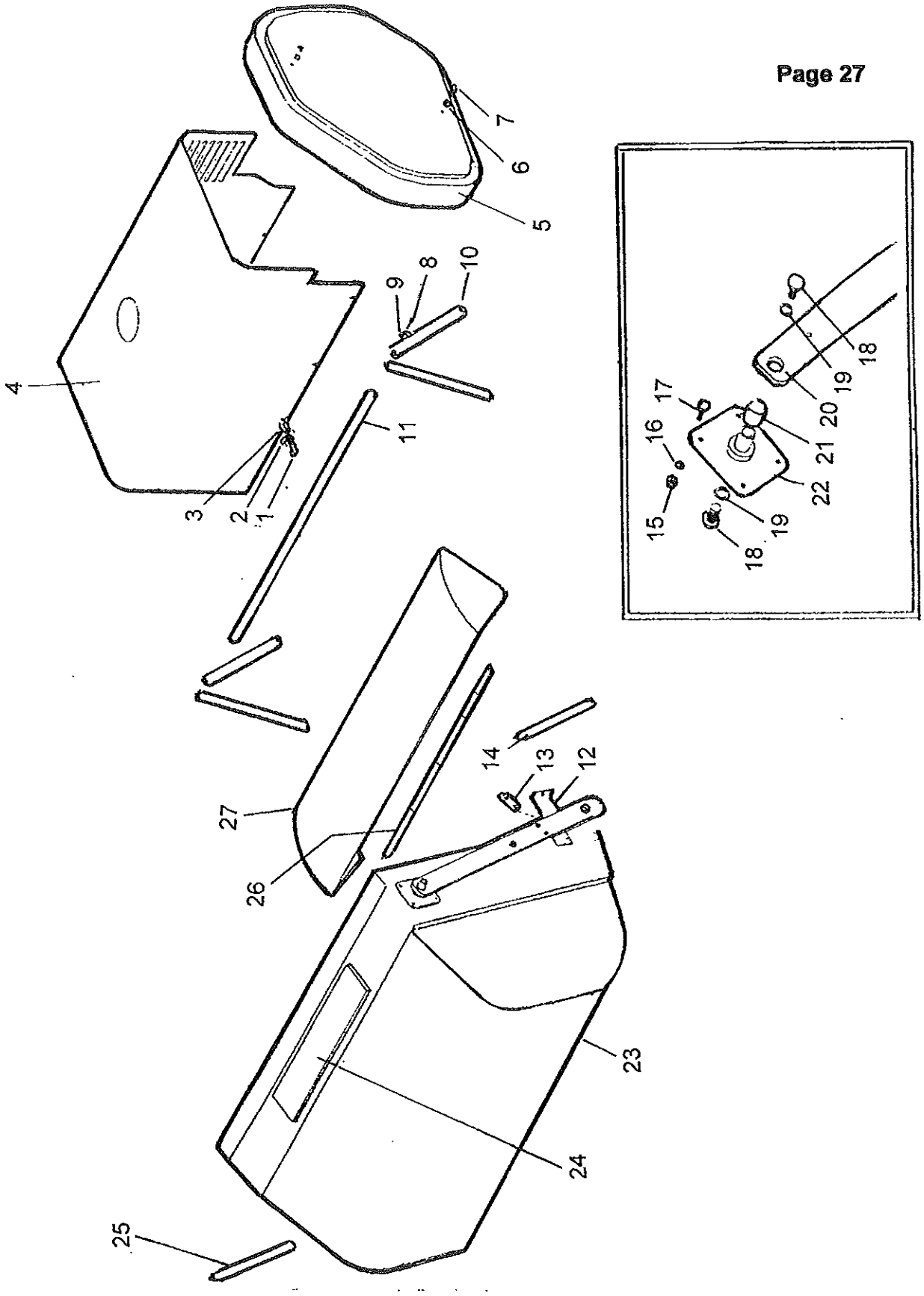


FIGURE 8 GRASSBOX ASSEMBLY

FIGURE 9 TRAILING SEAT ASSEMBLY

ITEM NO		PART NO
1	Upholstered Seat C/W Runners	AM82312
2	Trailed Seat Fabrication	AFK096
3*	Trailed Seat Coupling	TS252
4	1/2" Spring Washer	W11019
5	1/2"UNF x 1" Set Screw	S11018
6	Rear Roller Scraper	AG1016
7	Trailed Seat Shaft	AFK1203
8	Spacer	AFK1218
9	Locking Collar Screw	BSG1047
10	Rear Roller Lock Collar	BSG016
11	Trailed Seat Roller Section	AFK023
12	25mm Bearing	AM81049
13	M8 Spring Washer	SWM8
14	M8 x 20 Set Screw	SM820
15	M8 Plain Washer	WM8
16	M8 Nyloc Nut	NNM8
17	M6 x 25 Set Screw	SM625
18	M6 Spring Washer	SWM6
Complete	Trailed Seat Assembly	TS100

Note 3* Trailed Seat Coupling TS252 is welded to the frame. To replace, grind away weld and remove old coupling. Then re-weld new coupling into position

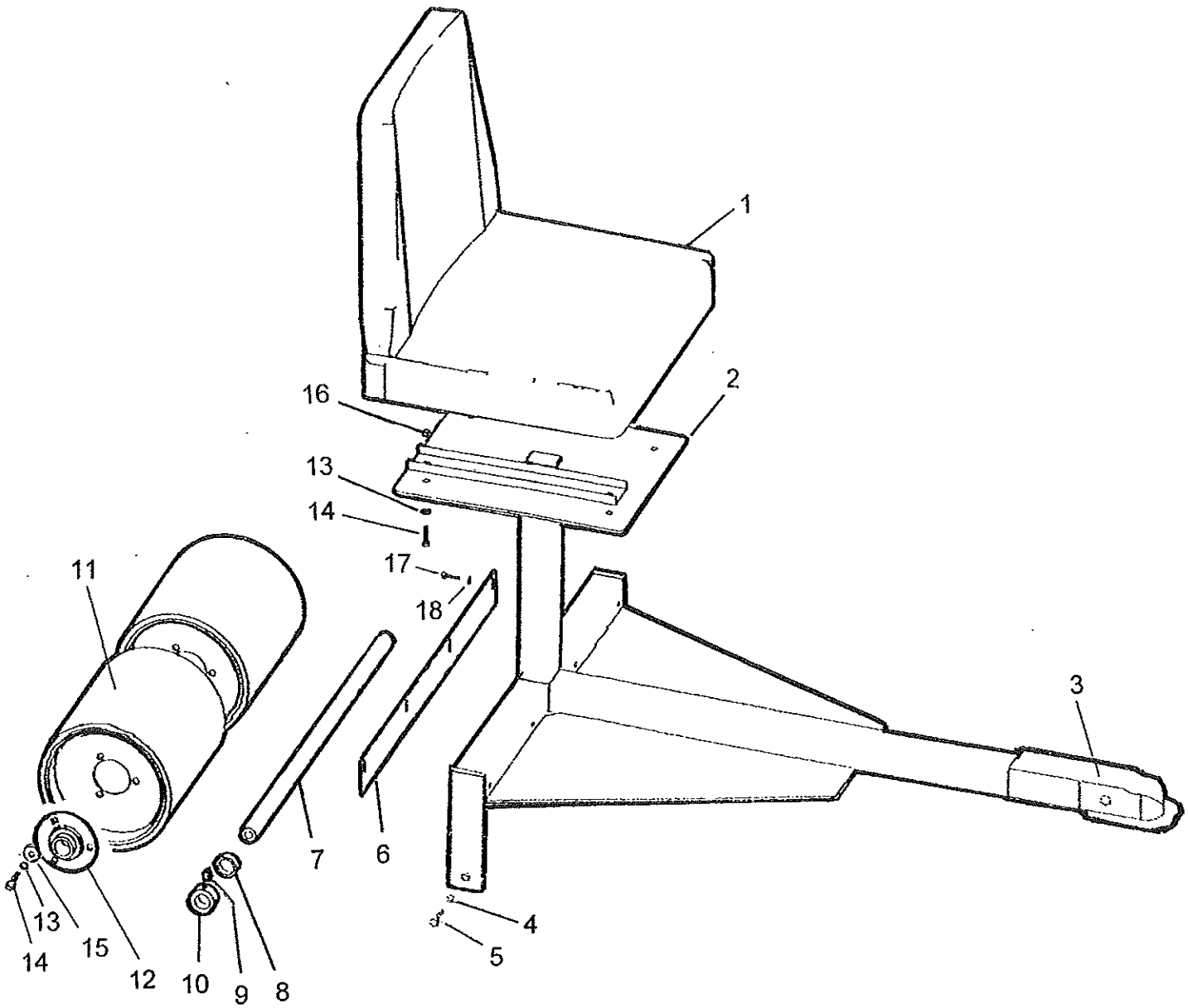


FIGURE 9 TRAILING SEAT ASSEMBLY

TRAILING SEAT – ASSEMBLY INSTRUCTIONS

Before you start assembling the trailing seat please check that the kit you have just received contains all the following items:

1 Chassis fabrication AFK242 & Roller assembly AFK245. These are already assembled, all that is necessary is to check that the securing set screws are tight. Fasteners used: ½" UNF x 1" set screw (S11018), ½" Plain washer (W11020) & ½" Spring washer (W11019).
2 Seat AM81336. This comes complete with the adjustable runners.
3 Seat Plate AFK1410.
4 Upright fab. – upper section AFK244.
5 Upright fab. – lower section AFK243.
6 Keel channel AFK1401.
7 Coupling AM81066.
8 Scraper bar AG1016.
9 Bag containing all necessary fasteners, contents as below:
a M12 x 30 Set Screw (SM1230) – 10off.
b M12 x 75 Bolt (BM1275) – 4off.
c M6 x 16 Set Screw (SM616) – 4off.
d M12 Nyloc Nut (NNM12) – 6off.
e M12 Spring Washer (SWM12) – 8off.
f M12 Plain Washer, Form C (WM12C) – 16off.
g M6 Spring Washer (SWM6) – 4off.
h M6 Plain Washer, Form C (WM6C) – 4off.
i M8 lock nuts – 4off. These may be already on the seat assembly depending on how your kit was dispatched from the factory.

Any shortages should be reported to your dealer who will arrange for the missing parts to be sent to you.

It is recommended that before attempting the assembly procedure that you first familiarize yourself with the procedure by reading through the instructions on page two, referring to the assembly diagrams (see diagrams 1 & 2) at each stage.

IMPORTANT: Ensure that all bolts and screws are properly located and tightened. Failure to do so could lead to injury of the operator.

ASSEMBLY

Step 1 If the seat plate AFK1410 is already attached to the seat AM81336 then proceed to Step 2. Otherwise locate the seat plate onto the seat runners. It may be necessary to remove the nuts from the seat runners beforehand. The seat plate must be orientated such that a) the seat plate goes on with the weld nut side on the first and b) there are two weld nuts to the front of the seat plate and one weld nut to the rear. Please refer to Diagram 2 for clarification. This will ensure that the seat plate fits to the upright AFK244 correctly.

Step 2 Take the upright fab. upper section AFK244 and align the holes in the seal plate AFK1410. Secure by means of three each of the following: M12x30 set crew, M12 spring washer and M12 Form C plain washer.

Step 3 Take the coupling AM81066 and align the holes in the keel channel AFK1401. This may be a tight fit and so will require a moderate amount of force to be applied in order to align the two parts. Secure by means of two each of the following: M12x30 set screw, M12 Form C plain washer & M12 Nyloc nut.

Step 4 With the keel channel and coupling from Step 3, slide the free end of the channel in between the two long stiffener plates on the underside of the chassis fabrication AFK242. Do not over tighten the nuts as this can in extreme cases cause the stiffeners and channel to buckle. The channel is secured to these plates by means two each of the M12 x 75 bolts, M12 Nyloc nuts and M12 Form C Plain washers.

Step 5 Take the upright fab. lower section AFK243 and align the holes with those at the rear of the chassis fabrication's upper surface.
Secure by means of four each of the following: M12x30 set screw, M12 spring washer and M12 Form C plain washer. Note that the foremost set screw of this group will secure the rear of the channel AFK1410 as fitted in Step 4. Secure the front of the channel by means of a single M12x30 set screw, M12 spring washer and M12 Form C plain washer at the front of the chassis fab.

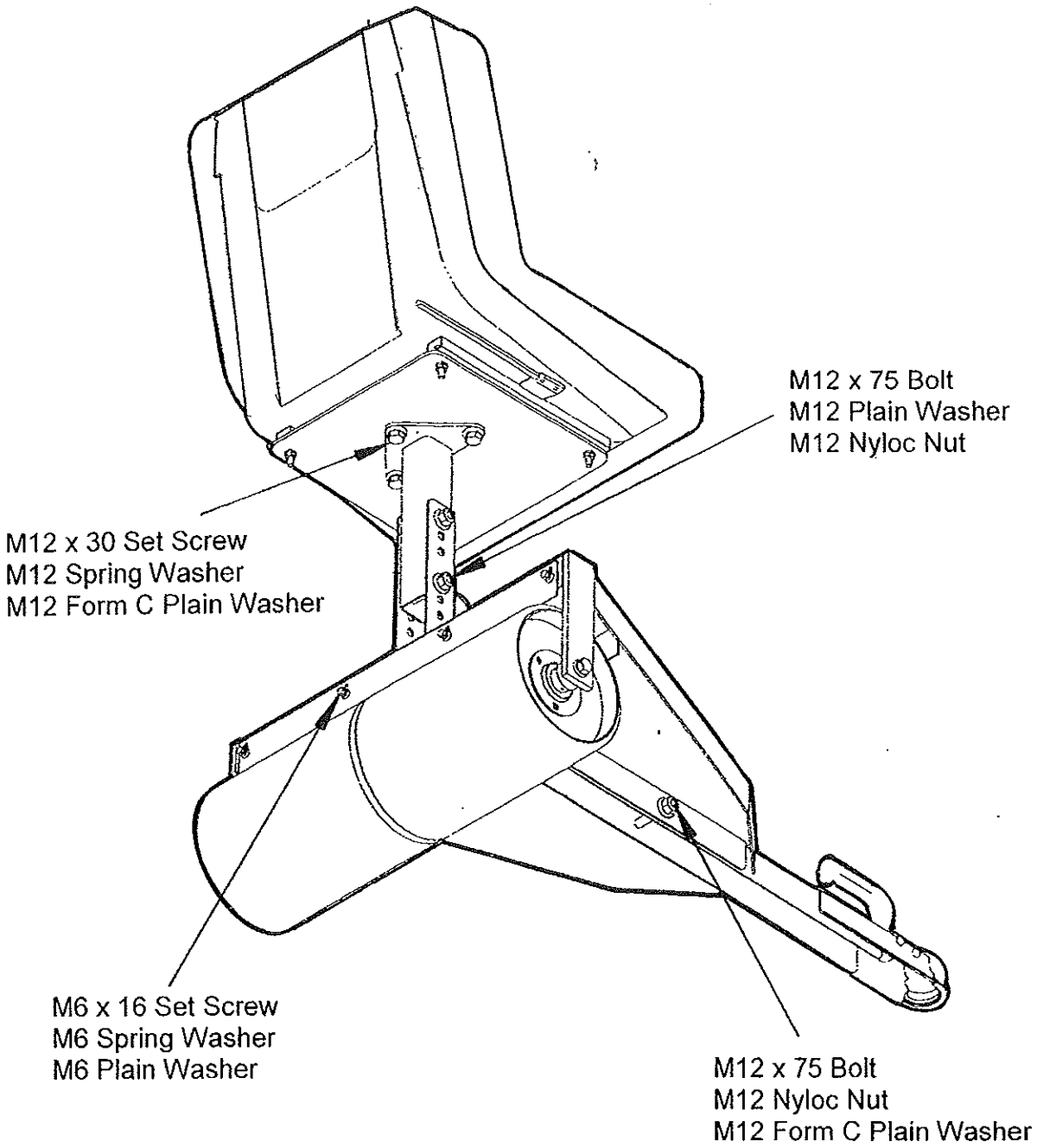
Step 6 Caution – the following step can be carried out by one person but ideally should be done so with two persona, one holding the seat and the other to align & secure the components.
Take the seat and upright assembly from Step 2 and locate it into the lower section of the upright as fitted to the chassis fab. in Step 5. Secure by means of two M12x75 bolts, M12 Nyloc nuts and M12 Form C washers. It is recommended that the uppermost hole in each of the groups of three are used initially as this provides for the "standard" seat height. Thereafter the seat height can be adjusted to one of the other two height settings to suit the operator.

Step 7 Fit the scraper bar AG1016 to the rear of the chassis fab. AFK242 using the M6x16 set screws & M6 washers (plain & spring). Adjust the height of the

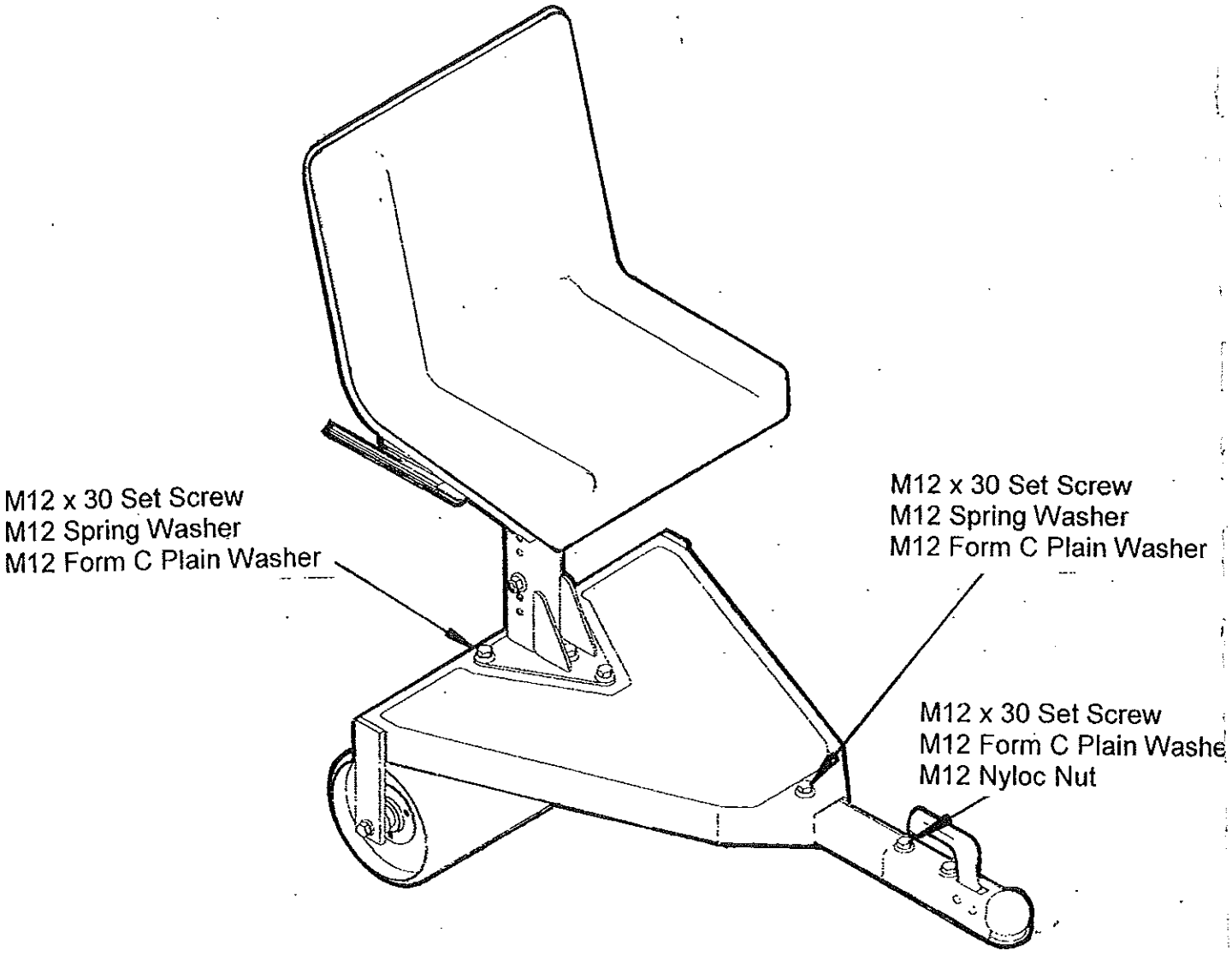
scraper bar if required by means of moving it up on its slots until the desired setting is achieved.

The trailing seat assembly is now complete and is ready to be fitted to your Allett Regal or Allett buffalo mowers.

As a final safety precaution check that all fasteners are tight, INCLUDING the screws securing the roller assembly in place.



TRAILING SEAT – FASTENERS



TRAILING SEAT - FASTENERS