

**ALLETT MOWERS LIMITED**

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**VICEROY  
30" CYLINDER MOWER**

# SECTION 1

## INTRODUCTION

Before operating the mower, please read this handbook carefully, ensuring that you know all the controls and how to stop the engine quickly in an emergency.

Your ALLETT mower has been designed and built to the highest possible standard and will give long life and good service, providing the following instructions are carried out. If they are ignored, costly repairs could result, which would not be 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 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 the guarantee.

- Cleaning and adjusting the carburettor
- Cleaning fuel system
- Cleaning spark plugs
- Adjusting cutters
- Adjusting belts

Breakdowns due to:

- Incorrect maintenance
- Incorrect adjustments
- Neglect
- Misuse
- Accidental damage

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

In the event of any communication with Allett regarding the mower, please quote:

Serial Number .....

Model .....

## SECTION 2

### PREPARING FOR USE

**Oil:** With the machine level, Check the oil level with the dipstick provided fill the engine sump with SAE 30 oil. Further details on the engine are given in the manufacturer's handbook. Apply a few drops of oil to the controls.

**Fuel:** Fill the fuel tank with unleaded petrol. The engine is a four-stroke unit and **no oil should be put in the petrol tank. IMPORTANT - petrol is highly inflammable.** Add fuel before starting the engine. Avoid spilling petrol. Do not fill the petrol tank while the engine is running or while you are smoking. If petrol is spilled, do not attempt to start the engine, move the machine away from the area of spill 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 very light contact with the bottom blade. Too heavy contact will cause premature wear and place excessive load on the engine and transmission. Check adjustment before the machine is started and the drive engaged. If necessary, re-adjust the cutting cylinder following the instructions given in Section 6.

## SECTION 3

### USE OF CONTROLS

**Note:** The engine should not be started until this section has been read.

**Throttle Control:** The throttle lever is mounted on the handlebar and should be set according to conditions.

**Ignition Switch:** This is located in to the right of the centre of the handlebar. Move to the on position to start the engine and the off position to stop the engine.

**Cutter Clutch:** The cutter clutch control lever is fitted on the right hand handle. Squeezing the lever up towards the handle will engage the drive to the cutters, releasing the lever will disengage the drive to the cutters.

**Forward Speed Control:** This control is mounted on the left-hand handle. To make the mower move forward slowly, gently raise the lever towards the handle, progressively raising this lever further will increase the forward speed. Releasing this lever will bring the machine to a halt. This is the neutral position. There is a forward speed control screw, which can be used to limit the forward speed to allow the lever to be held against a positive stop.

**Reverse Speed Control:** This control is a short lever, mounted just above the forward speed control. Use the thumb of your left hand to push this lever down. The further this lever is pushed, the faster the reverse speed. Releasing this lever will bring the machine to a halt. This is the neutral position. **Warning - take care when using reverse in confined spaces, to avoid injury.**

**Attention:** Reverse gear must not be engaged while the mower is being driven forward and vice versa.

## **SECTION 4**

### **SAFETY PRECAUTIONS**

To ensure the safety of operator and bystanders, it is important that the following recommendations are carried out:

- 1 Read this manual carefully. Know your controls and ensure that you are able to stop the machine and switch off the engine quickly, in case of emergency.
- 2 Visually inspect the machine before use and ensure that the cutting cylinder and bottom blade are not damaged.
- 3 Be sure that the machine is in a safe operating condition. Only fit replacement spare parts supplied by the manufacturer.
- 4 Ensure that all guards provided are used while mowing.
- 5 Do not operate the engine in a confined space where exhaust fumes (carbon monoxide) can collect.
- 6 Stop the engine whenever you leave the machine, refuel or make any adjustments.
- 7 Disengage the drive to the cutting cylinder before driving the mower across any surface other than grass.
- 8 Do not allow children or people unfamiliar with these instructions to use the mower.
- 9 If the cutters have been damaged, have the damage repaired and the cutters reground by your dealer.

## **SECTION 5**

### **STARTING THE ENGINE**

Refer to the engine manufacturer's handbook for instructions on how to start the engine. Before starting the engine, ensure that the cutter clutch lever is in the disengaged position and that the forward speed control is in the neutral position.

## **SECTION 6**

### **ADJUSTMENTS**

The height of cut is adjusted by moving the front roller up, for cutting shorter and down for leaving the grass longer.

The cutters are adjusted by turning the cutter adjuster screw located at the front of the cutting unit. Clockwise adjusts the blades further apart and anti-clockwise adjusts the cutters closer together.

To adjust the hydrostat belt drive, remove the guard next to the engine, slacken the 3 clamping bolts and move the jockey pulley bracket in the slots to increase or decrease tension as required. After doing this, ensure that the bolts are tightened and the guard is replaced.

To adjust the cutter drive belt, remove the cover on the side of the cutting unit, slacken the bolts which hold the hydraulic motor to the side plate and swivel the motor to obtain the correct tension, then tightened bolts and replace cover.

To remove the cutting unit, disconnect the 2 hydraulic push-in connections, remove 6 set screws at the top of the cutting head. To replace the cutting unit, replace setscrews and re-connect hydraulic hoses.

## SECTION 7

### SERVICE SCHEDULE

**Daily** - when in regular use, or every 10 hours.

- 1 Check cutters and adjust if necessary.
- 2 Check engine for oil, top up if necessary.
- 3 Shake out dust from air cleaner.
- 4 Clean any dirt from the cooling fins of the hydrostat.

**Weekly** - when in regular use, or every 50 hours

- 1 Check belt adjustments
- 2 Check oil level in hydrostat
- 3 Lubricate control rods, levers and cables with oil

**Monthly** - when in regular use, or every 200 hours

- 1 Check all screws and nuts for tightness
- 2 Remove engine cowling and clean any dirt and grass clippings from the cooling fins of the engine, then replace cowling.
- 3 Renew air cleaner element.

#### Fuel and oils

Petrol	Unleaded
Engine oil	SAE 30
Hydrostat oil	SAE 30, not multi-grade
Transaxle oil	SAE EP90
Hydraulic oil	Grade 32 hydraulic oil

## Main Frame

1.	AM82118	BRONZE BUSH
2.	AV115	CUTTER CLUTCH LEVER
3.	AV1129	LOCKING COLLAR
4.	AV106	HANDLE BAR CROSS PIECE
5.	AV053	ENGINE ASSY
6.	AM82177	THROTTLE LEVER
7.	AM89500	THROTTLE CABLE
8.	AV1129	LOCKING COLLAR
9.	ACGM6	GRUB SCREW
10.	AM82118	BRONZE BUSH
11.	AM81356	SPRING
12.	AV116	LOCKING SCREW
13.	GNM6	GREASE NIPPLE
14.	AV122	FORWARD / REVERSE LEVER
15.	AM82118	BRONZE BUSH
16.	AV104	HANDLE BAR LEG L/H
17.	SM1025	SET SCREW
18.	SWM10	SPRING WASHER
19.	WM10	WASHER
20.	SM825	SET SCREW
21.	NNM8	NYLOCK NUT
22.	AV1048	BELT TENSIONER PLATE
23.	S11042	SET SCREW
24.	AV1100	PULLEY
25.	AV1104	JAW - OUTPUT
	AV1113	JAW - INPUT
	AM81228	RUBBER COUPLING
26.	AV1068	PUMP MOUNTING
27.	AV1039	CONTROL ROD UPPER
28.	AM81308	PUMP C/W RELIEF VALVE
29.	NNM12	NYLOCK NUT
30.	WM12C	WASHER
31.	AM81321	BELT, HYDRO DRIVE
32.	BSG1033	PULLEY, JOCKEY, WITHOUT BEARINGS
33.	AM82104	PULLEY BEARING
34.	AV1122	ANTI VIBRATION PAD
35.	AV119	L/H HANDLE MOUNTING
36.	AM81320	RUBBER MOUNT
37.	WM8	WASHER
38.	WM8	WASHER
39.	WM12C	WASHER
40.	SM1265	SET SCREW
41.	NNM12	NYLOCK NUT
42.	NNM8	NYLOCK NUT
43.	NNM8	NYLOCK NUT
44.	SM825	SET SCREW
45.	SM825	SET SCREW
46.	WM12C	WASHER
47.	AV061	HYDRO LOWER ROD
48.	AV060	HYDRO PIVOT ARM
49.	WM12C	WASHER
50.	AC2217	LOCKING COLLAR

## Main Frame

51.	WM10	WASHER
52.	AV1057	SPRING
53.	BM1265	BOLT
54.	AC2217	LOCKING COLLAR
55.	NNM8	NYLOCK NUT
56.	SWM8	WASHER
57.	AV1123	LOWER VIBRATION PAD
58.	WM8	WASHER
59.	SWM8	SPRING WASHER
60.	SM850	SET SCREW
61.	AV101	CHASSIS FAB
62.	AME070002	HYDROSTATIC UNIT
63.	AM1240	SET SCREW
64.	AV1101	HYDRO PULLEY
65.	NNM8	NUT
66.	AV1047	TRANSAXLE U. BOLT
67.	AM87619	KEY
68.	AM794074	TRANSAXLE (DOES NOT INCLUDE HYDROSTAT)
69.	AV1124	SPACER
70.	WM10G	WASHER
71.	SWM10	SPRING WASHER
72.	AC029	WHEEL HUB
73.	S11085	SET SCREW
74.	AM81157	REAR WHEEL
75.	AM81158	WHEEL NUT
76.	SM1040	SET SCREW
77.	AV110	BRAKE LEVER
78.	AV1066	MOUNTING BRACKET, BRAKE LEVER
79.	AV126	BRAKE CONTROL ROD
80.	NNM10	NYLOCK NUT
81.	AM87264	BALL KNOB
82.	SM1040	SET SCREW
83.	WM10	WASHER
84.	NNM10	NYLOCK NUT
85.	AV1105	DUMP VALVE LEVER MOUNTING PLATE
86.	AV112	DUMP VALVE LEVER
87.	AV102	HYDRAULIC TANK
88.	AM81312/E	FILTER ELEMENT
89.	AM81312	FILTER ASSY
90.		FILTER CONDITION GUAGE
91.	AV105	HANDLE BAR RH
92.	AM81310	BREATHER
93.	AM81311	OIL LEVEL/TEMP GUAGE
94.	BSG1077	CLUTCH CABLE
95.	AM85043	ON/OFF SWITCH

## Hydraulics

1.	AM81251	3/8 BSP M/F 90DEG COMPACT ELBOW
2.	AM81254	3/8 BSP M/M ADAPTOR
3.	AM81308	PUMP
4.	AM81117	1/2 BSP M/M ADAPTOR
5.	AM81252	1/2 BSP M/F 90DEG COMPACT ELBOW
6.	AV1042	TANK – PUMP SUCTION HOSE
7.		FILTER CONDITION GUAGE
8.	AM81310	BREATHER HYDRAULIC TANK
9.	AV102	HYDRAULIC TANK
10.	AV1045	HOSE PRESSURE QR
11.	AM81254	3/8 BSP M/M ADAPTOR
12.	AM81309	MOTOR
13.	AV1046	HOSE-RETURN QR
14.	AM81314	MALE QR COUPLING
15.	AM81315	FEMALE QR COUPLING
16.	AV1044	HOSE1041 VALVE BULKHEAD
17.	AV1041	HOSE VALVE PRESSURE
18.	BSG1077	CUTTER CLUTCH CABLE
19.	AM81355	SPRING
20.	AM81225	SPOOL VALVE
21.	BSG1024	CABLE ANCHOR POINT
22.	AV1043	HOSE – TANK RETURN
23.	AV1050	ADAPTOR PLATE

## Cutter Assembly

1.	AM82118	BRONZE BUSH
2.	AV1081	PIVOT PIN
3.	AV1051	REAR DEFLECTOR
4.	AM82118	BRONZE BUSH
5.	AV1080	LIFTING HANDLE
6.	AM81172	GRIP
7.	AV100	CUTTER HEAD FAB
8.	AV1090	SPACER
9.	AM81322	BELT, CYLINDER DRIVE
10.	AV1022	PULLEY, CYLINDER DRIVE
11.	WM8	WASHER
12.	SWM6	SPRING WASHER
13.	SM625	SET SCREW
14.	AV1091	WASHER
15.	N11013	NUT
16.	AV1103	PULLEY
17.	AV1092	SPACER
18.	S11018	SCREW, CYLINDER BEARING NON DRIVE SIDE
19.	NNM8	NUT
20.	WM8	WASHER
21.	SM820	SET SCREW
22.	AV1051	FRONT DEFLECTOR PLATE
23.	AV109	TRANSPORT WHEEL ARM
24.	42012	R. CLIP
25.	AM87144	TRANSPORT WHEEL
26.	AV1060	AXLE, TRANSPORT WHEEL
27.	W11014	WASHER
28.	S11018	SET SCREW
29.	AV114	LOCATION PIN
30.	W11014	WASHER
31.	S11018	SET SCREW
32.	NNM8	NYLOCK NUT
33.	AV1038	SCRAPER WIRE
34.	SM1025	SET SCREW
35.	SWM10	SPRING WASHER
36.	AC019	HEIGHT ADJUSTER
37.	AV1037	ROLLER SHAFT
38.	AM81000	LOCKING COLLAR
39.	AC3202	ROLLER SECTION
40.	AC3203	ROLLER SPACER
41.	AM82165	KEY
42.	AM81010	BEARING, CUTTING CYLINDER
43.	S11033	CSK SCREW, CYLINDER BEARING DRIVE SIDE
44.	AV058	CUTTING CYLINDER
45.	AV055	BOTTOM BLADE CARRIER/ADJUSTER ASSY
46.	S11018	CARRIER PIVOT BOLT
47.	AM87110	30" BOTTOM BLADE
48.	AFK004	ADJUSTER ASSY L/H
49.	AFK105	ADJUSTER ASSY R/H