

**OPERATOR'S INSTRUCTIONS
AND
ILLUSTRATED LIST OF PARTS
FOR**

**Ransomes
"AJAX"
LAWN MOWER MK 4**

For convenience of packing the "Ajax" is sent partially dismantled. The top tray of the carton contains the four handle tubes, the cross clamp, handle grips, tool kit and instructions. Under this is the main assembly and the front roll sub-assembly. Make sure the machine is complete before dis-posing of the packing.

1.—The lawn should be swept before using the machine, to remove stones, worm heaps, and rubbish which *blunt and damage* the knives and prevent the machine from working properly.
2.—To alter the Height of Cut. This is controlled by the position of the front roll carriages. To cut closer, raise, equally, the side carriages LMS 910 and 911; to obtain a higher cut the carriages should be lowered. To ensure a correct alignment 6 positions are marked on the inner face of each carriage.

Caution. The machine should never be used with the bottom blade pressing on the lawn as this will damage the spiral cutters, the machine will work heavily and the grass will not be cut properly. To see if the machine is correctly set, turn the machine on its side and place a straight edge across the land and front rolls. There should be a gap of at least $\frac{1}{8}$ -in. between the straight edge and the bottom blade.

3.—If it is desired to leave the cut grass on the lawn, take off the grass box and take out the delivery plate LK 148Z from behind the cutting cylinder.

4.—Handle adjustment. The handles can be adjusted for height and width. To adjust for height slacken the four set screws LK 153 at bottom of the handles, move the handles up or down to the most convenient position, and re-tighten the set screws. To adjust for width slacken the two bolts holding the centre clamp (MAA 0537A) move the handles in or out to desired position and re-tighten bolts.

5.—Adjusting the cutting cylinder. The cutting cylinder is set correctly before despatch and no adjustment should be necessary for some time. It is advisable occasionally to make tests to ensure that the machine is cutting cleanly. This is easily done by inserting a piece of writing paper between the cutting cylinder and the bottom blade whilst carefully rotating the cylinder by hand. If correctly set it should be possible to cut the paper over the entire width of each cutter. If adjustment should be necessary slacken the locknuts (LS 1808/3) attached to the set screws and then turn the screw in a clockwise direction until the spiral cutters just touch the bottom blade throughout the whole length. It is advisable when adjusting to make a small adjustment to each screw alternately.

PRICE 1/-

When correctly set, the knives should be in light wiping contact with the bottom blade and revolve freely. Tighten the lock nuts after making the adjustment.

CAUTION. In the course of time, as the cutting cylinder and bottom blade become worn the springs will close up. The springs should be shortened before making any adjustment as otherwise damage to the side frames will occur.

6.—Whenever possible avoid cutting the grass when it is wet as the cuttings tend to hang on the knives and choke the machine instead of being delivered into the grass box.

7.—After using the machine, it should always be well cleaned and stored in a dry place. The knives should be turned a few times to clear the cutting edges, and then greased.

8.—Lubrication. Oil the following parts with the OIL pressure gun supplied, using OIL of SAE 30 quality.

- (a) CUTTING CYLINDER BEARINGS. These bearings are packed with grease. A little OIL should be added occasionally through the lubricators attached to the housings (LK 109 and LK 110).
- (b) FRONT ROLL SPINDLE. This should be oiled in between the wood rolls every time the machine is used.
- (c) INTERMEDIATE STUD AND GEARS. A little OIL should be given occasionally through the lubricator on the top of the right hand side frame.
- (d) LANDROLLS. Lubricators will be found through the holes in the landrolls. A little OIL should be applied every time the machine is used.
- (e) LANDROLL SPINDLE BEARINGS. These are of the self lubricating type and require no further lubrication.
- (f) GEAR CASE. Gear Wheels are greased before despatch and should not require attention for some time. The gear cover, however, should be removed at least once during the season and the gearing re-greased if necessary.

9.—To sharpen the knives. Set the cutting cylinder to the bottom blade as previously described. Support the side frames so that the landrolls will turn freely. Remove the gear cover and screw in the grinding-in pin into the largest gear wheel. Smear the cutters sparingly with emery or carborundum paste. Then rotate the large gear wheel rapidly anti-clockwise. This will soon freshen the cutting edges and the knives should be gradually adjusted down to the bottom blade as sharpening progresses. The cutters and bottom blade should be carefully wiped clean of surplus paste when sharpening is completed.

CAUTION. Do not let the carborundum or emery paste get into the cylinder bearings as it will wear them away.

RANSOMES SIMS & JEFFERIES LTD.
ORWELL WORKS :: IPSWICH :: ENGLAND

Telephone : IPSWICH 54711 (8 lines) Telegrams : "RANSOMES 1874 TELEX"

