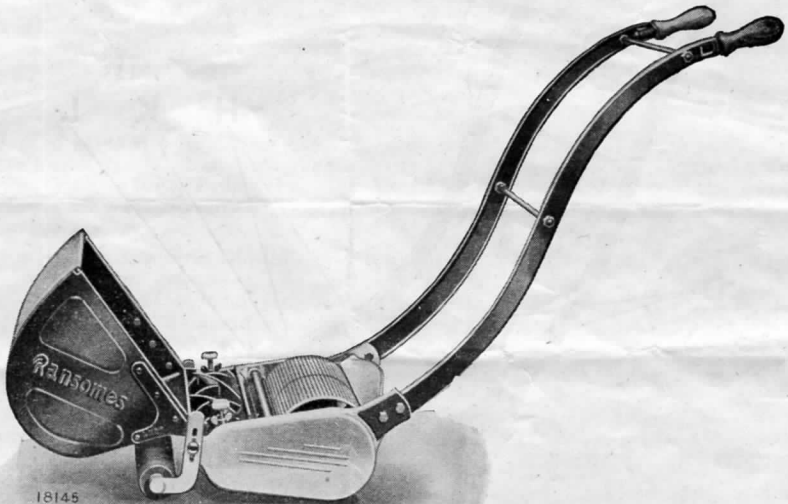


No. 14433H.

INSTRUCTIONS

FOR USING

RANSOMES' "AJAX" Mk. III. LAWN MOWER



MANUFACTURED BY

RANSOMES, SIMS & JEFFERIES, Ltd.,
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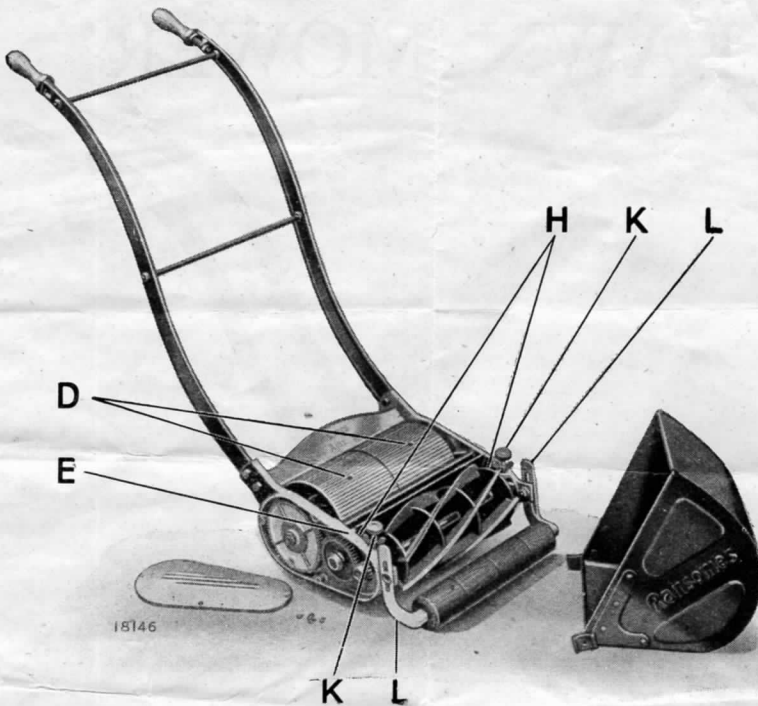
The oldest and most experienced firm in the Lawn Mower Trade.

E.A. T. 496 (Reprint)

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RANSOMES'

"AJAX" MK. III LAWN MOWER



NOTE.—All machines are lubricated and greased ready for use, when despatched from works.

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.

Instructions—continued.

2.—Lubrication.

Oiling points are fitted with nipple with spring-loaded ball.

To lubricate machine, lightly depress ball with spout of oil can, using only sufficient pressure to permit entry of oil. When spout is withdrawn the ball springs back into position, thus closing the oil nipple against entry of dirt.

- (a) *Cutting cylinder bearings.* These bearings are packed with grease. A little oil should be added occasionally through lubricators H.
- (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 lubricator E.
- (d) *Land rolls.* A little oil should be dropped through holes D, which will be found on the rims of the rollers, into the oil holes in the bearings, every time the machine is used.
- (e) *Land roll spindle bearings.* This is a self-lubricating "Oilite" Bearing and requires no additional lubrication.
- (f) *Gear Case.* Gear wheels are greased before machine is packed, and should not require further attention for some time. Gear cover should, however, be removed at least once during the season and the gearing re-greased if necessary.

3.—To alter the height of cut.—As each machine is sent out with the knives set high for safety in transit, it may be necessary to adjust the machine to cut the lawn. If the grass is long it will be better to use the machine as it is received and afterwards set it lower for a second cut. To *cut closer* raise equally the supports L which carry the wood rollers.

CAUTION.—The machine should never be used with the bottom blade pressing on the ground. The spiral cutters are then liable to damage by the bottom blade being forced upwards. The machine will work heavily, the turf will be torn up and the grass will not be properly cut. To see if the machine is set correctly, turn it on its side and place a straight edge across the land rollers and the wood rollers. The bottom blade should then be well clear of the straight edge.

(N.B.—When the grass box is used the bottom blade should be set higher from the ground to allow for the weight of the box and the grass contained in it).

4.—If it is desired to leave the cut grass on the lawn, take off the box, and *pull out the sheet iron delivery plate* behind the knives.

To replace sheet iron delivery plate—

1. Insert bottom lug on delivery plate just into bottom groove or guide.
2. Top lug on delivery plate should then be inserted into top groove.
3. Press plate down until it seats on to bottom block to which bottom blade is fitted.

5.—The handles are adjustable and can be altered to suit the person using the machine.

1. Slacken two nuts at point where bottom of handles are attached to side frame.
2. Move handles up or down to most convenient height.
3. Tighten nuts without using undue force.

Instructions—continued.

6.—Adjusting the knives.—Each machine is sent away with the cutting cylinder properly set to the bottom blade and no adjustment should be necessary for some time. When the machine does not cut perfectly, **set the cutting cylinder carefully to the bottom blade**, so that the revolving and fixed cutting edges are in contact without undue pressure. **For setting the knives and bottom blade, a simple, accurate method is used, viz., a set screw K on each side** of the machine, slacken the winged locknuts and turn the set screws in a clockwise direction to lower the cutting cylinder towards the bottom blade. The reverse direction raises the cutting cylinder away from the bottom blade. When properly set, the knives, revolving freely, should cut a leaf or piece of writing paper held between them quite easily at any part of the blade. If set too tight the machine is hard to push. Tighten locknuts after making required adjustment.

CAUTION.—In the course of time, as the cutting cylinder and bottom blade become worn, the springs may become closed up. If it is then attempted to set the cutting cylinder to the bottom blade, **the side frame is liable to damage**. The springs should be shortened to allow for the necessary adjustment.

7.—To sharpen the knives. Set the cutting cylinder to the bottom blade as described above. Remove the gear cover on the right-hand side of machine, take off one of the wood handles and screw it into the largest toothed wheel, then turn this wheel rapidly **backwards** taking care that the **frame is supported** on each side, so that the driving rollers can be turned freely. If at the same time oil is dropped on the knives and some No. 1 emery powder carefully shaken on them, this rapid backward turning will soon sharpen both the knives and bottom blade. Adjust the knives to the bottom blade gradually as the process of grinding goes on. Do not let any emery get in the bearings, or it will wear them away.

8.—Main gear wheel.—The nut holding this has a left-hand thread, and in order to remove the wheel, the nut must be turned in a clockwise direction.

9.—Cutting when the grass is very wet. If possible avoid this, as the machine does not cut so well; the wet grass is liable to hang on the knives, and not be delivered properly into the box.

10.—After using the machine, it should always be well cleaned, the delivery plate should be pulled out and cleaned from the cuttings and dirt, the knives turned two or three times to clear the cutting edges and greased. Replace delivery plate (see paragraph 4) and store the machine in a dry place. If left wet and dirty it will soon get out of order.

11.—In referring to the machine, right and left hand should be given when standing at handles.

In all cases, machines sent for repairs must be forwarded Carriage Paid and should be consigned at "Company's Risk."

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