



**NC311**

*In Our Fourth Generation*



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# 1. Operation Schematic Diagram

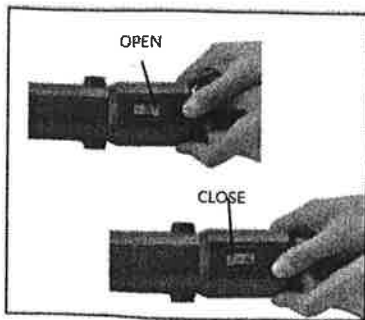


Fig.1 (Switch)

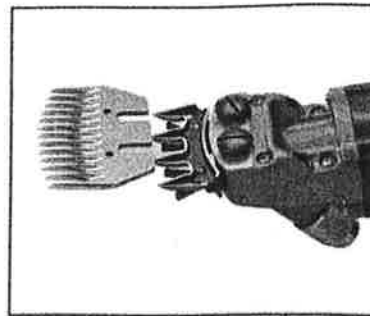


Fig. 2 (Positions of Knife Section and Shim)

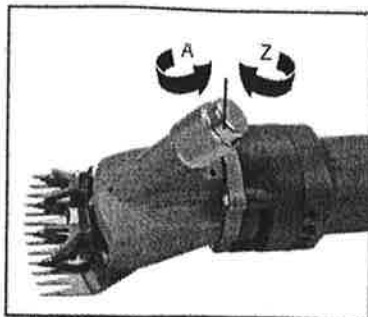


Fig. 3 (Adjusting Nut)

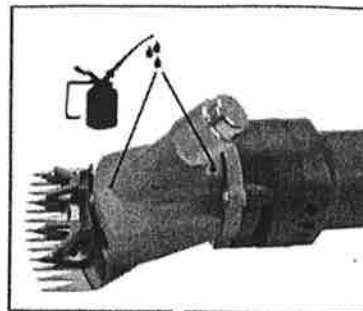


Fig. 4(Lubricant Oiling from the Hole on the Head Shell) (Hole 1 fixed position; Hole 2 Top)

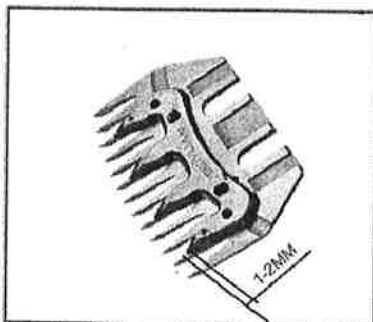


Fig. 5 Distance between Upper Blade and Lower Blade

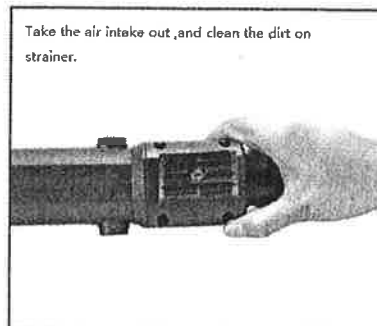


Fig. 6 Air Intake

## 2. Safety Instructions

Before use, following preparations should be conducted:

1. Check the circuit and make sure no power line is damaged or leaks electricity, and ensure that the voltage used is consistent with the one declared on the machine.

2. Check cable conductors of the machine, and replace it in case of any damage or breakage; keep the cable conductor away from fire to avoid damage to the conductor.

3. Before startup, make sure that the switch of the machine is on CLOSE position (as shown in Fig.1).

4. Sheep shearing should be carried out in a dry environment, and make sure that the machine is operating with the power supply away from damp and wet places in order to avoid short circuit, open circuit, dangers, or damage to the machine. Sheep shearing in the open air on a raining day is forbidden. Moreover, it is noted not to allow oil or water into the machine.

5. Sheep shearing work must be completed at the designated site. Keep bystanders and kids away from the working site to prevent the occurrence of any accident.

6. Sheep shearing should be done only by experienced workers or under professional instruction, as it may cause injury to sheep.

7. Don't touch the head of the machine with any part of your body when it is running, as it may cause injury to you, and keep the head away from hard object to avoid damage.

8. Shut down the machine when the work is stopped, take back the cable conductor, and pack them in the plastic box. Don't allow to leave the machine and its accessories about.

9. This machine is only used for sheep shearing. If it is intended to clip furs of other animals with this machine, then the blade or cutter head should be replaced with the proper ones. Hair-cutting on humans or fur-cutting on animals other than goat/sheep is not allowed.

10. If the machine is to stop, turn off the switch first on the machine and then pull out of the power cord.

11. When inspection or maintenance is needed, turn off the machine switch and pull out the power cord before such work is started.

### 3.Parameters & Packing List

Machine Parameters
Power: 350W
Speed: 2600Rpm
Frequency: 50/60Hz
Voltage: 110V/230V
Machine Dimension: 35*10*8.5CM
Net Weight: 1.9KGS

Packing List: Screw driver x 1 pc, hair brush x 1 pc, carbon brush x 1pair, lubricating oil for the machine x 1 bottle, plastic box x 1 pc, manual x 1, machine x 1 set

## 4. Operating Instructions

Select a proper working site which is required to be dry and dustless and keep bystanders and kids away from the working site.

1. Steps for machine adjustment are as follows:

- 1.1 Positions of blade (See Fig.2). Adjust positions of blades, and make sure there is a 1.5-2MM distance between the tip of the knife section and the tip of skim at the planimetric position (see Fig. 5) so that grease or dirt existing on the sheep will not affect the movement of blades.
- 1.2 Adjust the tightness of blades by rotating the adjusting nut clockwise (see Fig. 3) until a resistance is felt. Rotating the adjusting nut anti-clockwise will loosen the blades (see Fig. 3).
- 1.3 When blade adjustment is completed, connect up with the power supply, turn on the machine (see Fig. 1) and keep it running for 1 minute.

If it is found that any blade is disengaged, check: A. if the fix screw of the shim is tightened; B. if the adjust nut is rotated to the desired position. In case any of the said positions does have any problem, tighten the screw or the adjusting nut or both.

If the machine is heated to a temperature that a burn is felt,

please contact your local motor tool service shop or the after-sales service center of our company for repair.

2. When the machine completes adjustment, drip 5-8 droplets of lubrication oil that is supplied along with the machine onto the blade before the work is started.
3. During work, lubrication oil should be added to the machine . When the machine runs 1-2 minutes, it should be oiled on blade once again . The oiling amount usually is 5-8 droplets. Apply lubrication oil to two holes on the machine hole after about thirty minutes of operation. The oiling amount in such case is usually 3-5 droplets (see Fig. 4).

NOTE: When lubricant is applied to two holes on the head, the machine should be held in an angle which could facilitate the lubrication. When the lubricant is applied to Hole 1: hold the machine in the left hand, lean it inwards to a 45-degree angle, and add 3-5 droplets of lubrication oil. When the lubricant is applied to Hole 2, the machine should be inclined according to the position of the compression rod, and 3-5 droplets should be added. After about 7 days of use, unscrew the adjusting nut, remove the ejector sleeve, and check if there is any lubrication oil inside. If it seems dry, it should be oiled in time. Regular oiling can ensure a good working condition and long service life



of your machine.

4. Clean the air intake (see Fig. 6). There is an air intake on the back cover. After 2-3 days of use, open the rear cover, remove wools and dirt built up in the air intake with a dry brush in order to keep the air intake through and clean. Cloth or brush carrying oil or water is not allowed to clean the air intake, as it may cause short or open circuit.
5. Clean dirt on the blades. After the completion of one sheep shearing, rotate the adjusting nut anti-clockwise (see Fig. 3) until blades can be removed. When the blades are removed, clean dirt built up on the lower blade as well as dirt buildups inside the upper blade. In doing so, these two blades can closely fit.
6. If the machine is unable to clip the wool, or clips the wool not in an orderly way, it indicates that blades require grinding. In such case, a knife slicker made for this purpose should be used, or it should be taken to a plain grinding shop for repair. Dont grind the blade on your own if you are not familiar or skilled at knife grinding, as it may damage the blade.

## **5.Maintenance & Storage**

After the work is completed, take care of your machine according to following instructions:

1. Check if the machine runs normally. In case of any problem, fix it.
1. Turn off the machine and check the head, cable conductors, and other exposed components for any damage.
2. Open the rear cover and clean dirt buildups on the air vent.
3. Open the head shell and clean wool and dirt buildups inside.
4. Clean dirt buildups on blades, grind the blade if necessary, and brush lubrication oil on them to prevent rusting.
5. Envelope the machine into a plastic bag and then into the plastic bag, and store it somewhere out of reach of kids.

## 6. Common Problems & Causes

A. Why are blades heated?

ANSWER: There are two causes that may cause the blades heated: 1) blades are over-tightened; or 2) blades are dull and require grinding.

B. Why does the motor become heated?

ANSWER: There are three causes that may lead to motor heating: 1) the motor abrades against any object during operation; 2) the air intake is blocked; or 3) the voltage used is not the one designated.

C. Why is it found hard to shear wool?

ANSWER: There are three causes possible for this problem: 1) blades are loosely tightened; 2) blades become dull; or **3) blades used are not ones designated.**

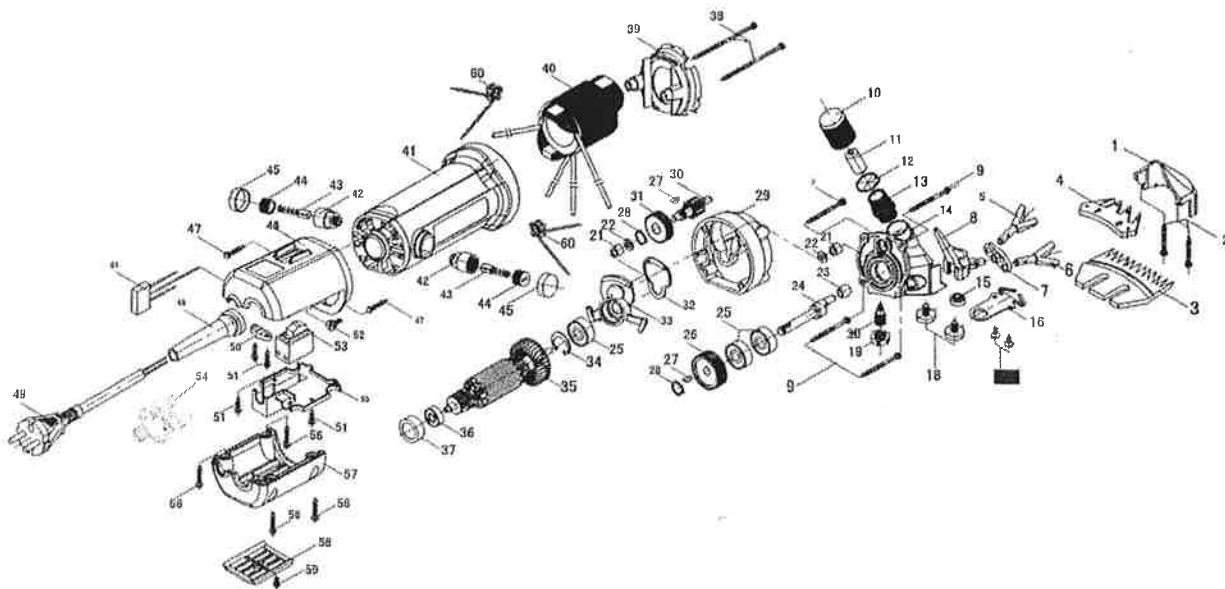
D. Why cant the machine be started?

ANSWER: The failure of the machine to be started can be caused by following reasons: 1) internal wiring is loosened; 2) switch or over-load protector is damaged; or 3) the motor is damaged.

E. How to grind the blade if it becomes dull?

ANSWER: 1) The user may purchase a machine designed for blade grinding; or 2) take it to a plain grinding shop.

## 7. Parts List For NC311



- |                    |                              |                               |
|--------------------|------------------------------|-------------------------------|
| 1. Head cover      | 22. metal plate              | 43. carbon brush              |
| 2. screw           | 23. ball bearing             | 44. screw for carbon brush    |
| 3. blade           | 24. eccentric shaft          | 45. cover for carbon brush    |
| 4. blade           | 25. bearing                  | 46. switch box                |
| 5. left press bar  | 26. bearing cover            | 47. screw                     |
| 6. right press bar | 27. jump ring                | 48. protection for wire       |
| 7. connect plate   | 28. metal plate              | 49. wire                      |
| 8. middle bar      | 29. gear box                 | 50. tension disc              |
| 9. screw           | 30. gear                     | 51. screw                     |
| 10. adjust screw   | 31. gear                     | 52. screw                     |
| 11. Press sleeve   | 32. rubber pad               | 53. switch                    |
| 12. spring         | 33. rotor support            | 54. overload protector        |
| 13. footstock      | 34. jump ring                | 55. pressing plate for switch |
| 14. aluminum head  | 35. rotor                    | 56. screw                     |
| 15. bearing        | 36. bearing                  | 57. cover for back frame      |
| 16. connect spring | 37. bearing cover            | 58. air intake                |
| 17. screw          | 38. screw                    | 59. screw                     |
| 18. screw          | 39. break wind ring          | 60. inductance                |
| 19. screw nut      | 40. stator                   | 61. capacity                  |
| 20. screw          | 41. motor box                |                               |
| 21. bearing        | 42. support for carbon brush |                               |