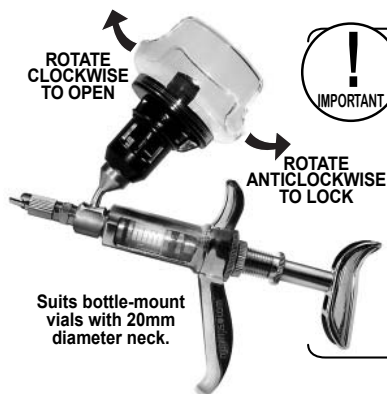


# 1ml VARIABLE VACCINATOR AUTO BOTTLE ATTACHMENT QUICK RELEASE MODEL 011



IMPORTANT

The 1ml Automatic Bottle Attachment Quick Release Model 011, is a precision instrument, with a high standard of finish, designed for mass treatment of livestock. Given normal care it will last indefinitely. As components in this instrument may be affected by solvents in some commonly used farm chemicals no responsibility will be accepted by the manufacturer should the instrument be used with such products.

## INSTRUCTIONS FOR USE

### ► Sterilisation Instructions

It is essential that this instrument, and a supply of needles, be thoroughly sterilized before each use. A common method of sterilization is as follows:

1. Remove needle cover from bottle retaining shroud by turning the clear shroud (21) clockwise 1/8th of a turn and pull out.
2. Turn applicator upside down and place bottle retaining shroud into clean water until draw-off needle is able to draw fluid into the cylinder.
3. Prime instrument and ensure instrument is full of water before sterilising.
4. Wrap instrument in a clean cloth, suspend the complete instrument and needles in boiling water for 10 – 20 minutes.



Suspending the instrument not only makes it easier to remove, but also prevents damage should the container boil dry. Chemical sterilization with antiseptic solutions is sometimes practised and in such instances the recommendations of the chemical manufacturer should be followed. **DO NOT attempt to sterilize by autoclaving.**

5. Remove instrument from container, wrap dry cloth around the handle and pump dry.

### ► To set the dose

1. Slacken off dose adjustor lock nut (12).
2. Rotate threaded dose adjustor (13) until the front of the piston aligns with the required calibration on the cylinder.
3. Retighten dose adjustor lock nut (12).

### ► To Prime

1. Pre-pierce centre of rubber bung on vaccine pack/bottle.
2. Open bottle-mount by rotating clear shield clockwise.
3. Gently push rubber bung onto bottle-mount needle.
4. Rotate bottle-mount anticlockwise to lock.
5. Attach needle and set syringe to maximum dose.
6. Hold syringe vertically and squeeze to draw vaccine into cylinder. (Holding vertically will ensure all air is expelled.)
7. The syringe is ready for use when a small amount of vaccine appears at the needle tip.



Care must be taken to ensure the liquid does not come into contact with any part of the operators body. Chemicals may cause injury to the operator.

## CARE AND MAINTENANCE

### ► After Use

1. Remove all traces of material from instrument by flushing thoroughly with a hot water detergent mix.
2. Follow with clean, warm water.



**DO NOT** store your applicator or feed tube full of product. Clean as per the "Care and Maintenance" instructions.

### ► To Replace Piston Seal Ring

1. Slacken off dose adjustor lock nut as far as possible.
2. Undo lock nut (9).
3. Hold needle mount and withdraw push rod cylinder assembly.
4. Remove cylinder before unscrewing piston.

5. Replace seal ring (10) taking care not to damage the groove.
6. Insert the piston back into cylinder and reassemble.

► **Lubricating Instructions**

If this instrument becomes sluggish in operation, lubrication is probably required behind the piston.

1. Slacken off dose adjuster lock nut as far as possible.
2. Undo lock nut (9).
3. Hold needle mount and withdraw push rod cylinder assembly.
4. Remove cylinder.
5. Apply a 4 or 5 drops of NJ Phillips Lubricant to the piston seal ring (10).

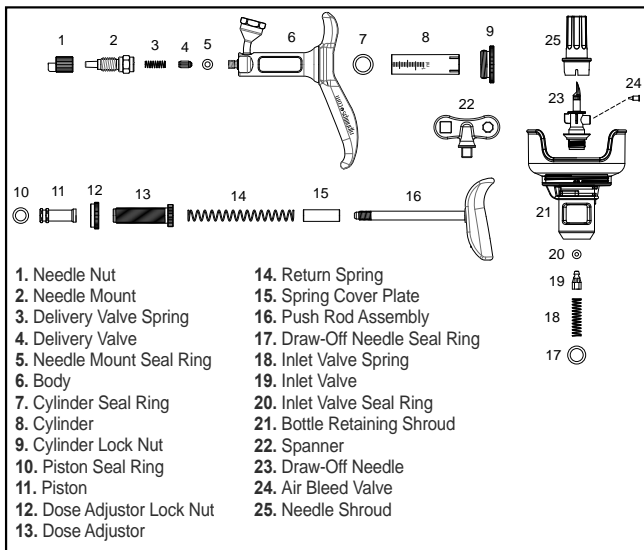
6. Insert the piston back into cylinder and reassemble.

► **Service Inlet Valve & Draw-Off Needle**

1. Use spanner provided (22) and insert into needle cover (25) locating in the square hole provided.
2. Unscrew draw-off needle to access inlet valve and spring and service or replace draw-off needle.
3. Once serviced, reassemble as per diagram.



If this instrument becomes sluggish during use, lubricate both in front of and behind the piston with NJ Phillips Lubricant.



1. Needle Nut
2. Needle Mount
3. Delivery Valve Spring
4. Delivery Valve
5. Needle Mount Seal Ring
6. Body
7. Cylinder Seal Ring
8. Cylinder
9. Cylinder Lock Nut
10. Piston Seal Ring
11. Piston
12. Dose Adjuster Lock Nut
13. Dose Adjustor

14. Return Spring
15. Spring Cover Plate
16. Push Rod Assembly
17. Draw-Off Needle Seal Ring
18. Inlet Valve Spring
19. Inlet Valve
20. Inlet Valve Seal Ring
21. Bottle Retaining Shroud
22. Spanner
23. Draw-Off Needle
24. Air Bleed Valve
25. Needle Shroud

PLEASE ORDER BY KIT AND PART NAME

**SPARE PARTS AVAILABLE:**

<u>KIT No.</u>	<u>PART NAME</u>	<u>INCLUDES ILLUSTRATION No.</u>
WX749	Major Service Kit	3,4,5,7,8,10,14,17,18,19,20.
WX1118	Minor Service Kit	3,4,5,7,10,14,17,18,19,20.
WX1781	Conversion Kit (Feedtube Attachment Fitting)	Not Illustrated.



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