

# 5mL VARIABLE TREE INJECTOR



The 5mL Tree Injector is a precision instrument, with a high standard of finish. 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

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 Attach connecting hose to handpiece.
- 2 Wrap cloth around handpiece and draw hot water into cylinder through connecting hose.
- 3 Suspend the complete instrument in a container of water and boil, together with the needles, for 10 to 20 minutes.
- 4 Remove instrument from container, wrap cloth around the handle and pump dry.



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.**

## To set the dose:

- 1 Slacken off dose adjustor lock nut.
- 2 Rotate threaded dose adjustor until the front piston washer registers with the required calibration on the cylinder.
- 3 Retighten dose adjustor lock nut. After attachment to the vaccine container hold the instrument vertically (needle upwards) and prime until all air is removed from the cylinder and connecting hose. Presence of excessive air bubbles in the cylinder indicates a loose fitting or damaged piston seal. See instructions for care and maintenance for replacement procedure.



**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. Follow with clean, warm water.
- 2 Disconnect feed tube from handpiece and place inlet fitting in NJ Phillips Lubricant, allowing a small quantity of NJ Phillips Lubricant to be pumped through the handpiece.
- 3 Store with dose set at 2 ml. This is most important as, after being stored for some time, the piston washers may adhere to the cylinder. Setting down to 2 ml does not allow sufficient stroke to damage the washers when the instrument is worked for next use.



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

## To Replace Rubber Washers

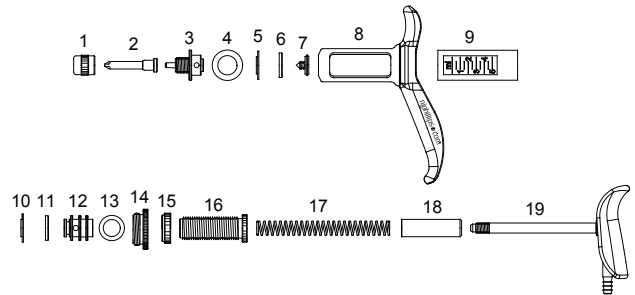
- 1 Slacken off dose adjustor lock nut as far as possible.
- 2 Undo cylinder clamping nut.
- 3 Hold needle mount and withdraw push rod cylinder assembly.
- 4 Remove cylinder before unscrewing piston.
- 5 Replace 'O' ring, taking care not to damage the groove.
- 6 Ensure that the raised boss on the piston washer faces to the front and that the support washer is correctly positioned.
- 7 Insert the piston washer carefully into the transparent cylinder.
- 8 Removal of the needle mount and head cage is accomplished by easing the cage through the side of the body.
- 9 To remove the delivery valve first insert a nail in the hole in the valve cage and then unscrew the delivery valve screw. When replacing these parts ensure that the raised boss on the valve washer faces to the front.

- 10 When re-assembling it is important to make certain that the needle mount is correctly located in the hexagonal hole in the cylinder cage head before re-tightening the cylinder clamping nut.

## Lubricating Instructions

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

- 1 Unscrew the dose adjustor until it can be pulled back against the spring and clear of the body.
- 2 Lubricate the cylinder with four or five drops of NJ Phillips Lubricant.
- 3 Screw back the dose adjustor to the required dose.



## LEGEND:

- |                         |                            |
|-------------------------|----------------------------|
| 1. Nozzle Nut           | 11. Cup Support Washer     |
| 2. Spray Nozzle         | 12. Piston                 |
| 3. Delivery Valve Cage  | 13. Piston Seal Ring       |
| 4. Head Seal Washer     | 14. Cylinder Lock Nut      |
| 5. Plunger Washer       | 15. Dose Adjustor Lock Nut |
| 6. Cup Support Washer   | 16. Dose Adjustor          |
| 7. Delivery Valve Screw | 17. Return Spring          |
| 8. Body                 | 18. Spring Cover Plate     |
| 9. Cylinder             | 19. Push Rod Assembly      |
| 10. Plunger Washer      |                            |

Assembled at an ISO 9001:2015 accredited facility

Contact your local NJ Phillips product representative for service kit details

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