



## ***Instruction Manual***

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MANTR55-10 REV B 20/02/17

**BOOMLESS NOZZLE KITS  
TO SUIT 55L & 100L REDLINE  
TR55-10, TR100-10**



### **BOOMLESS NOZZLE KIT TR55-10**

This boomless nozzle kit can be used with the trailed 55L or 100L Redline sprayers by using the appropriate nozzle (included) to match the pumps output to the nozzle capacity. The kit is supplied with an on/off switch which can be fitted to the wiring loom of the 12V Sprayer to allow the driver to easily switch on and off without having to get of the towing vehicle.

The kit bolts to the trailer as shown above and includes a swivel nozzle holder that allows the nozzle angle to be adjusted to achieve the optimum swath width.

The pump pressure is fixed, and not adjustable, towing speed adjusts application rate.

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## GENERAL INFORMATION

### WHEN TO SPRAY

Results will be best when wind speed is low, temperature low and relative humidity high. An ideal time is at sunup when these conditions are most likely to apply.

### APPLICATION RATE:

The application rate depends on the following.

- Speed of travel - increasing speed reduces application rate and vice versa.

$$\text{Application Rate (L/Ha)} = \frac{600 \times \text{Nozzle Output (l/min)}}{\text{Speed (km/hr)} \times \text{Spray Width (m)}}$$

### GROUND SPEED:

The speedometer on many vehicles may not be sufficiently accurate at the slow speeds used when spraying. If in doubt it should be checked by the following method.

Measure and mark 100 metres. Approach the starting mark at the required spraying speed and accurately measure the time in seconds to reach the finishing mark. The ground speed can then be calculated as follows.

$$\text{Speed (km/hr)} = \frac{360}{\text{Time in seconds for 100 metres}}$$

### BOOM TEST (NOZZLE OUTPUT):

1. Partly fill the sprayer tank with water and mark the level or refer to the sight gauge.
2. Run the sprayer for several minutes and measure the time carefully.
3. Refill the sprayer tank to the mark using a measuring jug and record the amount added.
4. The output for one nozzle in litres per minute can be calculated as follows.

$$\text{Nozzle Output (l/min)} = \frac{\text{Litres Used}}{\text{Number of Minutes}}$$

### SPRAY CHART:

You must fit the correct nozzle to match your sprayer. Based on these figures the following application rates are achieved at the following towing speeds. Always verify the speed and nozzle spray rate with water first before attempting to spray with chemical

Sprayer	Nozzle	Nozzle output L/min	Application Rate L/Ha					
			Nozzle Swath (*Application rates apply only when swath set to)	2	4	6	8	10
55L	TKP-4	2	2m	300	150	100	75	60
100L	TK-VP7.5	3.7	3m	370	185	123	93	74

**Nozzle TKP-4**  
Poly Suit  
55L Redline  
(White colour)



**Nozzle TK-VP7.5**  
Poly Suit  
100L Redline  
(Green colour)

**\*Note:** Actual application rate will vary if swath set to different width.

**Note:** Nozzles listed are matched to their intended pump, always use the correct nozzle for your sprayer. Use of the wrong nozzle can cause, under spray, pressure pulsation, component wear or component damage.