



Hand held Sprayer (Knapsacks & Pressure sprayers) Routine Check List

1. DETAILS	
Company/Owner name :	
Address:	
Operator Name & NPTC No.	
Sprayer make & model. Include any ID marks (consider adding a unique ID mark if you run multiple sprayers):	
Inspection by (add NPTC No if different from above):	
Inspection date:	

PLEASE WEAR SUITABLE PPE BEFORE COMMENCING THE INSPECTION

2. GENERAL CONDITION	YES	NO	ACTION
Clean, empty & depressurized? ! Follow manufacturer's instructions !			
Check lid – seal & non return valve present & in good condition?			
Tank strainer clean & in good condition?			
Check tank for damage – any cracks or holes?			
Inspect straps & fixing points for damage, cleanliness & security?			
Inspect all hoses for damage – are they still flexible?			
Check trigger & lance – are there signs of damage & leakage?			
Check any filters fitted (in trigger & behind nozzle) –are they clean and in good condition?			
Check nozzle – is it fitted/aligned correctly and has no signs of damage?			
Check pump (piston or diaphragm) – are there signs of damage or leakage?			
Electric sprayers - check condition of battery, charger and circuits			

DO NOT PROCEED TO 3 IF THERE IS A CHEMICAL RESIDUE OR SIGNS OF DAMAGE/LEAKAGE. DECONTAMINATE BY INTRODUCING WATER/DETERGENT MIX OR PROPRIETRY CLEANING CHEMICAL EQUIV. TO 10% OF THE TANK VOLUME, AGITATE, PRESSURISE & SPRAY UNTIL AIR COMES FROM NOZZLE. REPEAT X 2. REPAIR AND/OR REPLACE PARTS AS REQUIRED.

3. FUNCTION CHECKS	YES	NO	ACTION
Using a vessel of a known liquid volume, introduce clean water into the sprayer in stages until full – are the graduations on the tank visible & accurate?			
Check that the straps will take the weight of the full sprayer ! TAKE CARE !			
Is the sprayer stable on the floor or bench when full?			
Check for leaks with the sprayer upright and on its side.			
Pressurise the sprayer – Does the pump work smoothly?			
Check for leaks, again paying attention to the hoses, trigger & lance.			
Spray into an appropriate container – does the on/off mechanism function correctly, any anti-drip/flow management valves?			
Check the spray pattern of the nozzle for uniformity (Further spray nozzle checks should be carried out as part of the recommended calibration regime – see hand held BIGGA Sprayer Calibration Sheet).			
Check nozzle output – pump to working pressure ideally fit pressure regulator. Measure water volume delivered in 30 seconds – check output is within plus/minus 10% - nozzle colour v pressure output table below			
Spray out all liquid until air comes from the nozzle. Is there less than a cupful (250ml) remaining in the tank?			

Nozzle Output : ml in 30 seconds

Nozzle Colour	pressure in Bar				
	1	2	3	4	5
015	175	245	300	345	385
02	230	325	400	465	515
03	345	490	600	695	775
04	460	655	800	925	1,035
05	575	815	1,000	1,155	1,290
06	695	980	1,200	1,385	1,550

4. PREPARE TO STORE	YES	NO	ACTION
Ensure the sprayer is empty & depressurized! Follow manufacturer's instructions !			
Ensure that the external parts of the sprayer, including straps are clean and dry.			
Clean spray nozzles & filters in a water/detergent mix using a soft brush. (Do not use sharp objects to unblock nozzles)			
Lubricate any moving parts, such as plunger cups or O rings with an appropriate lubricant/grease – Follow manufacturer's instructions			
Store securely in a frost free place away from direct sunlight.			

ALWAYS FOLLOW CORRECT DISPOSAL PROCEDURES FOR ALL RINSINGS & ENSURE THAT NO CONTAMINATED LIQUIDS ENTER DRAINS OR WATERCOURSES.