

allen



Professional **WALKOVER SPRAYER**

OPERATING INSTRUCTIONS & PARTS LIST

KEEP THIS BOOKLET IN A SAFE PLACE



CONTENTS OF THE PACKING CASE

- 1 x Machine body complete
- 1 x Top handle
- 1 x Boom Assembly
- 2 x Swath marker arms
- 1 x Bag containing:
 - a) Handle nuts, bolts and washers
 - b) 2 x cable ties
- 3 x Red nozzles TF VP 2
- 1 x Instruction Manual and Guarantee Card

ASSEMBLY INSTRUCTIONS

The PROFESSIONAL machine has been factory tested prior to packing and only requires the boom and handle assemblies to be fitted, using nuts, bolts and washers supplied in fixing bag.

Take the boom assembly complete and attach to the main frame using M6 nuts, bolts and washers from fixing bag. When this has been completed take the black nylon wing nut and fit onto the boom inlet.

Take handle section and fit into place at the required height, using M6 x 35 bolts, M6 wing nuts and washers from fixing bag. The tubes attached to the ball valve assembly should run along the inside of the handle. For tidiness, secure the tubes to the handle using the cable ties supplied.

TESTING

A trial run should be carried out on a dry concrete surface to check that the nozzles are in alignment. This should be carried out using clean water to ensure everything is in working order. Half fill the container with cold water, turn ON-OFF tap into the ON position and move off at a steady walking pace similar to mowing, to maintain an indicated pressure of 1 Bar on the gauge. This will prime the pump mechanism and water will spray from the nozzles, showing that all the air has been bled from the system.

If an airlock remains in the system, unscrew one of the three diaphragm check valve caps and push machine until water flows through the system. Tighten cap and machine will start to spray. DO NOT over tighten diaphragm cap.

OPERATING INSTRUCTIONS

When filling the machine add sufficient spray material to cover the area needing treatment or a pro-rata amount if only part filling. Pay careful attention to which colour nozzle is fitted at the time of spraying to avoid any over or under application of chemical. Always follow the chemical manufacturer's instructions relating to the specific area. In many instances dilution rates of chemicals are not critical, but in some cases where a greater volume of water is needed, then two x half strength applications are recommended, spraying where possible in a chequer board fashion in North to South and East to West directions.

SPRAY WIDTH

The PROFESSIONAL sprayer has a spray width of 36 inches (941mm) which is wider than the track of the machine. The overlap must be taken into consideration on the return swath. Swath markers are included with the machine as standard and lightly scuff the grass at the outer limit of the spray pattern, allowing exact marking of the treated area. In common with all WALKOVER sprayers, the spray pattern tails off on the extreme edge of the treated swath which is compensated for when treating the return track.

Two sets of nozzles are provided with the machine giving alternative coverage areas for the 25 litre (5.5 gallons) loading as follows:

- a) *With standard nozzle fitted, Brass TK 1.5, one full tank covers 670 sq. metres (800 sq. yards) equivalent to 370.4 litres/hectare (33 gallons/acre)*
- b) *Alternative nozzle, Red TF VP 2 delivers to one full tank 500 sq. metres (600 sq. yards) equivalent to 494 litres/hectare (44 gallons/acre)*

The tank is marked to give approximate coverage's for partial filling.

N.B. The coverage areas for each nozzle may vary plus or minus 5% depending on the speed of operation and variations of the terrain.

Always keep all four wheels on the ground when spraying.

NOZZLE ASSEMBLY

The diaphragm control valve unit is fitted with a quick fit nozzle cap. It is important to keep the nozzle outlet parallel to the ground. With the brass type nozzle you will find a machined slot in the face, by using a flat blade screw driver you can make necessary adjustments to the alignment. When fitting red nozzle, alignment can be made using an open ended spanner across the nozzle flats.

If the nozzle drips or the spray pattern is distorted, this may be caused by a minute blockage in the diaphragm valve or nozzle filter. To remove the nozzle tip, rotate the cap a half turn anticlockwise, when viewing from the front. Always ensure the nozzle seal is in place on reassembling.

Treat all components with care as they are precision made to give a long and accurate working life.

PUMP REMOVAL

Should the pump at any stage during the machine's working life cause trouble it can easily be removed and returned to ALLEN POWER EQUIPMENT LIMITED, for repair or replacement. Work on the inside of the pump can only be carried out by the manufacturer and no attempt should be made to dismantle this unit otherwise the guarantee becomes invalid.

To remove the pump, tip the machine backwards onto the handle to allow easy access. Remove the circlip (spring clip) on the right of the pump which holds the axle and wheel assembly in position. This frees the axle from the pump. Remove the stainless steel elbow retaining spring clip and then each of the pipe elbows from pump. These elbows are a push fit and are detached by pulling at a slight angle.

Unscrew the retaining nuts thus allowing complete removal of the pump. To reassemble the unit, reverse the foregoing operation ensuring that the nuts are not over tightened.

CLEANING AND STORAGE

Always thoroughly clean the sprayer after use. Flush through the whole system with clean water using a small amount of mild household detergent when toxic chemicals have been used. It is very important not to allow chemicals to dry out in the pump mechanism which could granulate and score the interior surfaces. This could impair the performance of your machine. A drain tap is mounted in the bottom of the tank for easy drainage.

Great care should be taken to thoroughly clean the boom assembly of all chemical materials. The boom could hold chemical from the last usage and cause a problem on the next. To clean the boom thoroughly remove the two end diaphragm caps and flush through with a garden hose.

Where temperatures below zero degrees are likely to be experienced ensure that all the liquid has been drained from the machine by removing the hose from the pump. This elbow is a snap fit and pulls out quite easily at a slight angle. Rotate the drive wheel to empty the pump and pipe work and reconnect the pipe into the pump. A small amount of car anti-freeze introduced into the pipe and pump system will give excellent protection.

DO NOT empty chemicals in areas where contamination may occur.

FILTRATION

A basket filter is located under the filler cap and should remain in position at all times, except when removing for cleaning. An in-line bowl filter between the tank and pump gives further protection to the pump and nozzles. Periodically this should be cleaned by removing the bowl and washing the small stainless steel element inside. An isolating tap between the bowl filter and the tank allows removal of the bowl when the tank is loaded, thus no wastage of chemical can occur if a blockage needs clearing whilst the sprayer is in use. It is useful when cleaning the sprayer to remove the filter bowl and element and flush the tank through with clean water without pushing any sediment into the pipeline feeding the pump.

ALWAYS OPERATE THE PROFESSIONAL WITH FILTERS IN PLACE.

TYRE PRESSURES

The tyre pressure for all four wheels should be maintained at between 20 to 25 p.s.i.

DO NOT inflate over 25 p.s.i.

NEVER

1. Add concentrated active ingredients to an empty tank, this will result in pure product entering the delivery pump and pipe lines.
2. Leave the sprayer in winter storage with liquid in the tank or pipe work. Severe frost could distort the pump and burst the pipes.

ALWAYS

Ensure the container is half full of clean cold water at the outset of your spraying operation and the pump primed before adding concentrated chemical.

In the case of highly viscous concentrates and soluble powders, pre-dilute the product to be applied in a watering can or bucket with sufficient water to ensure it is completely dissolved.

Half fill the tank with clean cold water. Add the required amount of product and top up to the 25 litre (5.5 gallon) level with water and replace the cap. Rock the unit backwards and forwards a few times to ensure satisfactory mixing and then commence spraying, maintaining a steady pace. If a smaller area is to be treated fill the tank to the appropriate level.

The WALKOVER machine stops spraying immediately it ceases to travel forward. To move the sprayer in a full condition (from one area to another) without spraying, turn the ON-OFF tap to the OFF position. In this position the liquid in the container is recycled through the pipe work system back into to tank.

PRECAUTIONS

The pump mechanism is set by the manufacturer. Any tampering with the pump setting may change the performance of your machine and will render your Guarantee void.

Some of the chemicals which can be applied by this machine onto grass areas and driveways require special precautions for use. Protective clothing including boots, gloves and masks may be necessary and therefore individual manufacturer's recommendations for the particular chemical must be closely adhered to.

ALLEN POWER EQUIPMENT LIMITED disclaim any responsibility for misuse of any proprietary brand of chemical applied by a machine of their manufacture. All reasonable care is taken to ensure correct dosage application of known chemical formulations but ALLEN POWER EQUIPMENT LIMITED do not guarantee either their efficacy or accept any responsibility for damage resulting from users' mistakes in assessing dilution rates.

Experience has shown that combined mixes of chemicals, i.e. fungicides and weed killers, can sometimes interact, resulting in the formation of a gelatinous substance which can crystallise if left in the machine after use. This solidifies within the pump and nozzles and can in extreme instances completely destroy the pump mechanism.

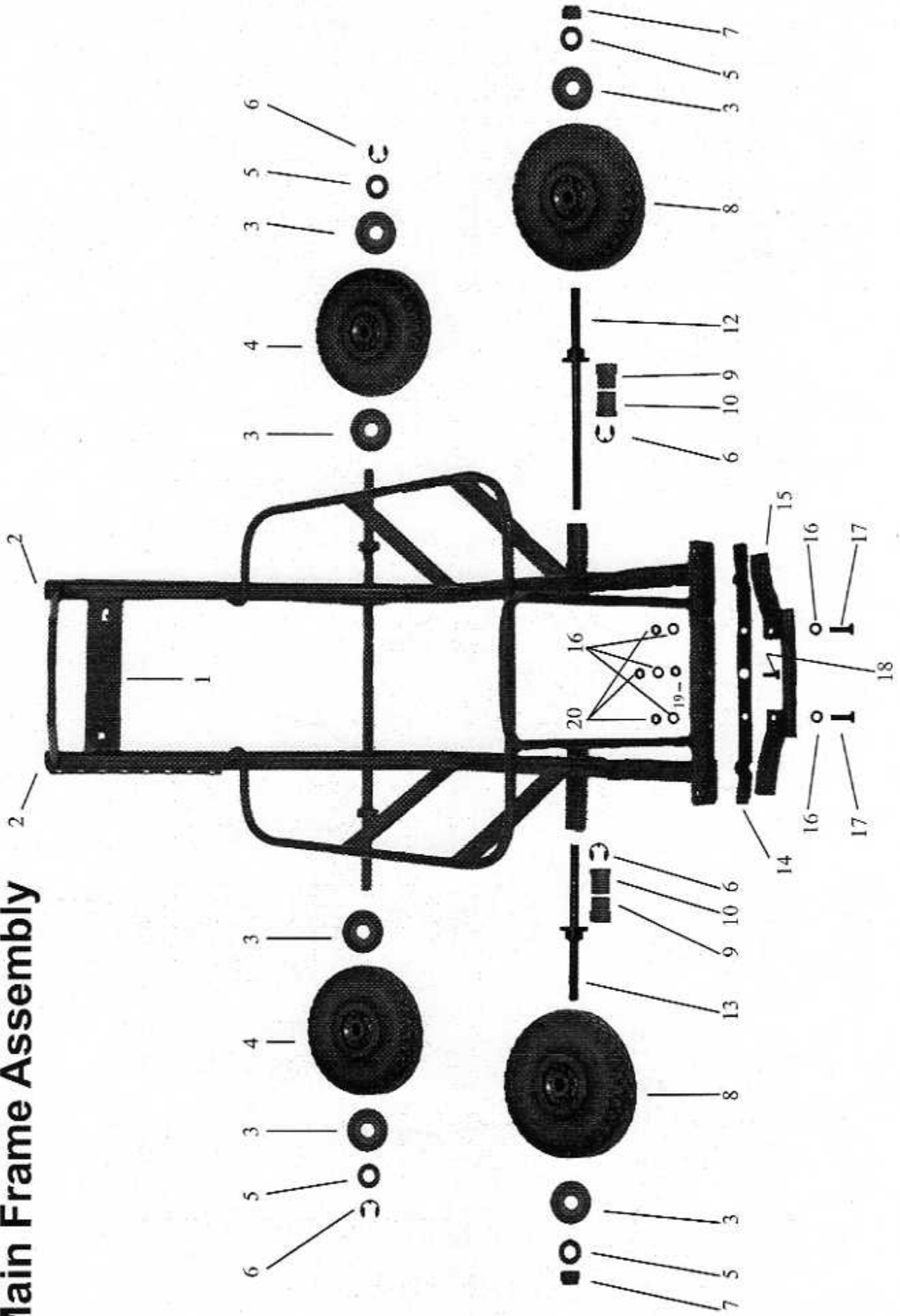
Many proprietary brands of garden and horticultural chemicals are sold in the form of Soluble Powder or Crystals. The Walkover machine will satisfactorily apply these chemicals always providing that the crystals or powder are pre-mixed before adding to the reservoir tank and assuming that the chemical in question is **entirely soluble**.

NEVER leave a soluble powder or a crystal solution, or even an organic product, to stand in the machine for any period of time as sediment may form in the system and the concentration being applied may be too strong and cause scorching. It may also find it's way into the pump mechanism causing damage.

DO NOT mix proprietary brands of chemicals unless assured of their compatibility

N.B. THE WALKOVER LAWN SPRAYER IS NOT SUITABLE FOR USE WITH CRYSTALS OF SODIUM CHLORATE.

Main Frame Assembly



Boom Assembly

— Shown for reference only

