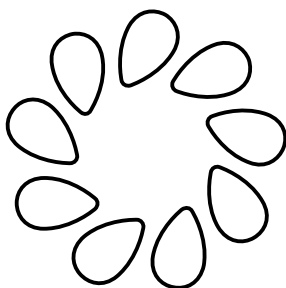
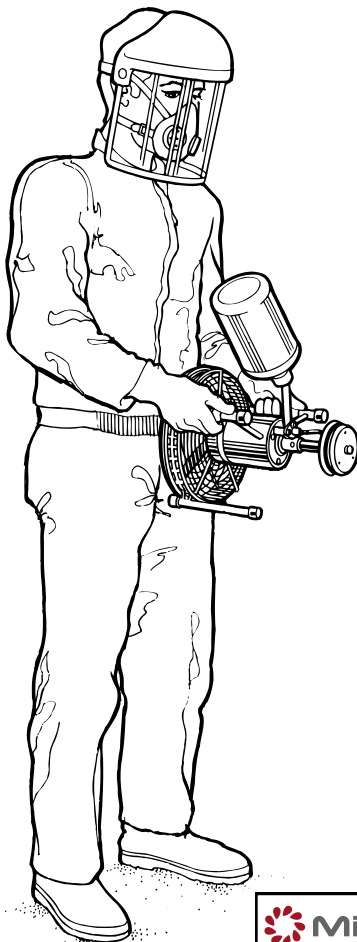


Micron



Electrafan240

Poultry Vaccination Instruction manual



MICRON GROUP

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IMPORTANT POINTS

Please read this manual before using the Electrafan 240.

Safety

- Never touch the disc while it is turning.
- Wear the protective clothing recommended, do not wear clothing such as scarves or ties (may become entangled with the fan).
- Disconnect the battery before servicing the sprayer.

Vaccination

- The Electrafan 12 is recommended for repeat vaccination against I.B., N.D. and T.R.T./S.H.S.
- Verify if droplets of 70µm are suitable under your local conditions (high temperature/low humidity).
- Only vaccinate healthy animals.
- Use fresh, clean, distilled, de-ionised water.
- Gather the birds for easy coverage and reduce light/ventilation during the vaccination.

Use/Maintenance

- Do not put the sprayer/battery under water.
- Do not use disinfectants on parts that may be in contact with the vaccine.
- Do not completely tighten the vaccine bottle to allow air inlet.
- Clean the sprayer and recharge the battery before storage.

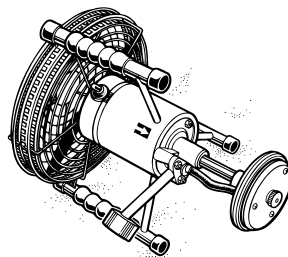
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DESCRIPTION


The ELECTRAFAN 110/240 is a light, air-assisted, hand-held, spinning disc Controlled Droplet Application (CDA) sprayer. It is powered by a mains electric motor of either 110 volt or 240 volt. The use of a suitable extension cable enables treatments of up to 80m from a power source. The sprayer is designed for intermittent use. The sprayer with a full spray bottle weighs 3.25 kg. An electric motor spins the atomiser disc to produce uniformly small droplets which are carried to the target by an airstream generated by the fan. Liquid is fed by gravity. The ELECTRAFAN 110/240 is designed primarily for the foliar application of insecticides and fungicides in glasshouses and polytunnels of both water-based mixtures (e.g. ECs, WPs) at 20 to 40 litres/hectare total spray volume and Ultra-Low Volume (ULV) formulations. It is also used to apply public health insecticides, for applying vaccines to poultry and for insect control on livestock and in animal housing. When using the ELECTRAFAN 110/240 in an enclosed/confined space a full face shield and respirator **must** be worn (see 'OPERATOR PROTECTION').



ELECTRICAL SAFETY

**WARNING - THIS APPLIANCE MUST BE EARTHED.
ONLY USE AT THE VOLTAGE SHOWN ON THE LABEL.**

The colours of the mains lead of this machine may not correspond with the coloured markings identifying the terminals in your plug. Therefore proceed as below:

- ◆ the earth wire is coloured green and yellow and must be connected to the earth terminal in the plug marked with the letter E or by the earth symbol  or coloured green and yellow.
- ◆ the neutral wire is coloured blue and must be connected to the neutral terminal marked with the letter N or coloured black.
- ◆ the live wire is coloured brown and must be connected to the live terminal marked with the letter L or coloured red.
- ◆ the IP rating referred to on the label of this machine applies to the motor enclosure only.

The machine should be fitted with a latching 16 amp mains plug to BS 4343/CEE 16 or equivalent. If this or any other type of unfused plug is used, a 5 amp fuse **must** be fitted at the fuse board. In the U.K. a 13 amp mains plug to BS 1363A, fitted with a 3 amp fuse, should only be used where this is suitable, taking into account the working environment, and where the method of operation will not cause the mains connection to be put under strain. The use of a residual current circuit breaker, preferably incorporating a supply failure automatic drop out facility, is strongly recommended.

An extension lead of up to 80 metres may be fitted using a suitable waterproof cable connector. The lead should be of heavy duty 3 core flexible cable and of a conductor size not less than 1.0 mm² (32/0.2 mm). This is essential to avoid excessive voltage drop. Use the extension lead fully unreeled to prevent overheating. A faulty cable **must** be replaced. Ensure the cable does not make contact with the rotating atomiser disc.

ALL ELECTRICAL CONNECTIONS MUST BE PROPERLY MADE. IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN.

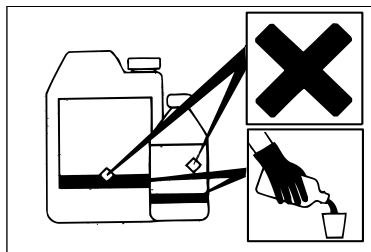
GENERAL SAFETY

Using agrochemicals is a hazardous process, particularly in enclosed areas. Operators should comply with all relevant legislation and/or regulations governing the use of agrochemicals and **must** use appropriate personal protective equipment (see 'OPERATOR PROTECTION'). **Never** use the ELECTRAFAN 110/240 in potentially explosive atmospheres or spray flammable liquid through it.

The ELECTRAFAN 110/240 can be used with most conventional insecticides and fungicides, as well as specific ULV formulations (only available in some countries) which reduce risks in mixing and filling.

Always read the product label carefully to discover:-

- ◆ approved applications
- ◆ maximum dose rates
- ◆ maximum number of treatments
- ◆ operator protection required
- ◆ necessary environmental protection measures



N.B. 'Dose rate' refers to the amount of chemical product applied per hectare.

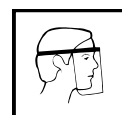
Never eat, drink, or smoke when working with agrochemicals. After using agrochemicals or handling equipment wash your hands thoroughly. Keep people (especially children) and animals out of areas being sprayed.

Always store agrochemicals safely to protect people and animals, and to safeguard the environment (take special care to avoid water pollution). See spraying sections for guidelines on safe use of the ELECTRAFAN 110/240 in operation.

OPERATOR PROTECTION

Always wear the protective clothing items listed on the product label for mixing and filling. The **minimum** protective clothing required for **spraying** with the ELECTRAFAN 110/240 is:

- ◆ face shield
- ◆ respirator
- ◆ rubber gloves and boots
- ◆ long sleeved shirt
- ◆ long trousers



Note:

- a) **Acoustic information:** the sound pressure level at the operator's ear is 90 dB(A). Using the machine in an enclosed/confined space may cause this level to increase by up to 6 dB(A). The sound power level of the machine is 94 dB(A).

The wearing of suitable ear defenders is recommended when using this machine.

- b) **Vibration:** the weighted RMS acceleration value at the hands when using this machine does not exceed 2.5 m/s².

Always disconnect the sprayer from the mains before servicing or following 'TROUBLESHOOTING' procedures.

Never touch the edge of the atomiser disc.

Never insert anything through the fan guard with the machine connected to the battery.

Never wear loose clothing, e.g. scarves and ties, or any item which could be drawn into the fan.

Check the sprayer cable frequently for cuts, abrasions and damage. A faulty cable **must** be replaced.

PREPARING FOR SPRAYING

Check that the intended mains supply corresponds to the label on the machine before fitting a plug to the mains cable (see 'ELECTRICAL SAFETY').

Before connecting to the mains supply check by hand that the atomiser assembly and fan rotate freely by turning the atomiser assembly in an anti-clockwise direction. (**Do not** touch the edge of the atomiser disc). If they are not free to rotate **do not** attempt to start the sprayer but contact your supplier or Service Department at Micron.

Plug the sprayer into the mains supply and switch on to check smooth running of the atomiser disc and fan.

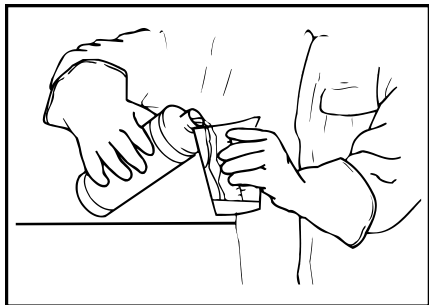
The sprayer **must only** be used at the rated voltage. The machine **must** be switched off in the event of power interruption or failure.

N.B. Before spraying for the first time with the ELECTRAFAN 110/240, sprayer operation must be checked using **only** water (see 'BEFORE SPRAYING').

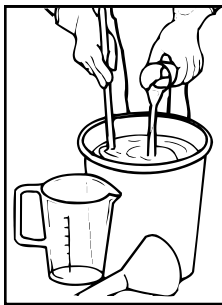
CAUTION. The Electrafan 110/240 are **not** designed for continuous running. A **thermal cut out** is fitted to the motor to prevent the motor from over heating. If the motor does over heat the sprayer will stop running, let the motor cool down and the **thermal cut out** will reset enabling the operator to carry on spraying.

MIXING, FILLING AND CALIBRATION

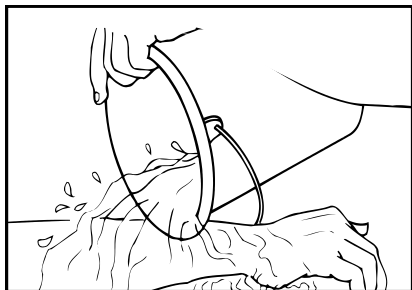
Mixing and filling is generally the most hazardous process in the spraying operation. **Always** follow the label instructions. **Always** use a funnel when filling the bottle. **Only** mix enough spray for the area to be treated if using water-based mixtures to avoid the need for disposal of unused spray mix.



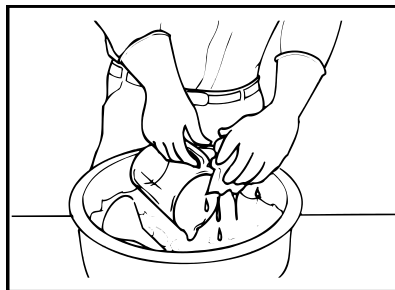
Always wear gloves when handling agrochemicals and equipment.



Always use the correct equipment when mixing and measuring.



Always wash off any skin contamination



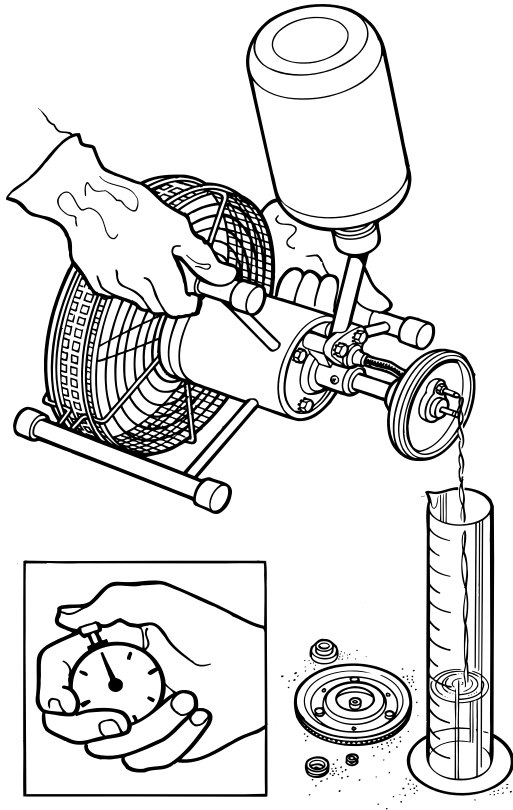
Always clean all equipment after use.

CALIBRATION

The spray droplet sizes produced by the ELECTRAFAN 12 have been accurately measured (70 microns). The sprayer is capable of producing a very uniform size range of droplets suitable for the delivery of respirable spray vaccines. Spraying should be carried out on a time and volume basis rather than solely a volume per thousand birds. The more time spent spraying the birds the better the vaccine coverage. However, the time allowed for spraying is determined by the length of time during which the shed/house ventilation can be inoperative.

Nozzle Selection

Choose the appropriate nozzle required for your application or refer to recommendation from your vaccine supplier. To change nozzle and measure flow rate unscrew union nut and refit alternative nozzle. You may measure output over 1 minute with disc removed (do not switch on the sprayer).



Nozzle flow rates (with water) are:

Nozzle Diameter	Flow Rate (ml/min)	Spray time in minutes for		
		1 litre	2 litres	3 litres
1.1	55	18	36	54
1.5	100	10	20	30
2.0	To be used for higher viscosity/oil based products			

Example 1:

To spray a house containing 25,000 ten day old broilers, depending on ambient temperature, the ventilation can be shut down for approximately 20 minutes without stressing the birds.

In 20 minutes the 1.5 mm nozzle will spray approximately 2 litres.

25,000 doses should be mixed in 2 litres of fresh distilled water and the vaccine sprayed on the birds for 20 minutes.

Example 2:

To spray a house containing 10,000 twelve week old broiler breeders, depending on ambient temperature, the ventilation can be shut down for approximately 20 minutes without stressing the birds.

In 18 minutes the 1.1 mm nozzle will spray approximately 1 litre

10,000 doses of vaccine should be mixed in 1 litre of fresh distilled water and the vaccine sprayed on the birds for 18 minutes.

PREPARING THE VACCINE

Use a clean, disinfectant free, non-metallic calibrated jug for preparing the vaccine mixture. Only use fresh clean distilled or de-ionised water for mixing with vaccine.

Make sure there are adequate washing facilities available for personal cleaning after vaccination i.e. warm water for soap and disinfectant.

Ensure appropriate protective clothing and equipment is worn according to vaccine manufacturers instructions.

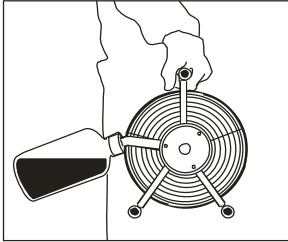
1. Read the label carefully and then follow the vaccine manufacturers instructions. If necessary take advice from the vaccine supplier or your veterinarian. Make sure you have a sufficient number of doses to treat all birds.
2. Calculate the volume of water required to vaccinate the birds according to nozzle used and time of application (see 'CALIBRATION').
3. If spraying for the first time carry out a trial run spraying the birds with water only to ensure you apply the correct volume.
4. Wash hands to make sure they are clean and free from soap and disinfectant. Measure volume of distilled or deionised water required in the jug.
5. Remove the metal caps from all vaccine bottles. Submerge the vaccine bottles one by one, remove rubber stoppers under the water and then rinse each bottle to remove all live vaccines before discarding empty bottle.
6. Transfer the mix to the spray bottle. Replace bottle cap.

BEFORE SPRAYING

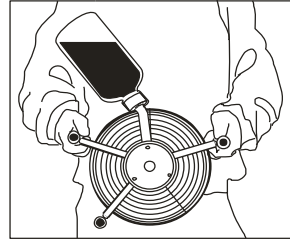
1. Wear recommended protective clothing (see 'OPERATOR PROTECTION') and ensure birds are healthy. Only vaccinate healthy birds. Consult a veterinarian in case of doubt.
2. Make sure that the battery has been fully charged (if possible the day before spraying so that there is time to recharge the battery if required).
3. Plan a route before spraying (see below).
4. Prepare the vaccine, fill the bottle and screw the bottle on the sprayer. Do always keep the bottle in an upright position during this procedure. Do not completely tighten the bottle to allow inlet of air.
5. Before spraying turn off all ventilation fans and dim the lights as low as possible whilst still being able to see obstacles in the shed/house. In naturally lighted houses it may be beneficial to vaccinate when darkness has fallen.

During Spraying:

6. To begin spraying; with the machine in the resting position, switch on the fan and atomiser and then turn the sprayer over to invert the bottle and commence liquid flow. Start walking along planned route. Hold the sprayer to one side and walk slowly through the birds. If you need to stop spraying briefly, bring the sprayer back into the resting position. To stop for a longer period you may switch off the fan as well.



Electrafan 12 in resting position



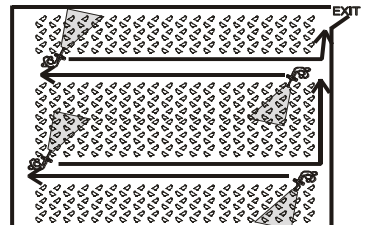
Electrafan 12 in spraying position

Before spraying for the first time use water **only** to check the operation of the sprayer. Put some clean water in the bottle and screw it into the bottle holder. When fitting the bottle into the bottle holder tighten fully and then unscrew by 1/4 of a turn. If this is not done the airbleed may be blocked causing liquid feed to stop. Check for leaks. Switch on the sprayer with the bottle below the atomiser disc and **then** turn the sprayer over so that the bottle is above the atomiser disc (spray liquid will then flow through the feed nozzle onto the atomiser disc). This is the spraying position, and spray will immediately be emitted. **Start walking** as soon as the sprayer has been turned over. Practice using the sprayer by walking along a few metres and then stopping spraying.

The ELECTRAFAN 240 produces small droplets which are barely visible in normal conditions. To check the sprayer output switch on, turn the sprayer into the spraying position and direct the spray onto a suitable surface such as a pane of glass or painted surface for a few seconds. A liquid film or mass of small droplets will be seen.

Non-caged birds

1. Following a logical and systematic route up and down the house. Divide birds into groups whilst walking through them. Always walk towards the door. Move slowly through the birds with the machine held down at arms length directed slightly downwards at the birds (as a general guide, it is useful to aim the machine at birds approximately 4-5 metres in front of you).



2. As you walk hold the sprayer to one side covering a strip about four to five metres wide on each side of you. It is possible to see birds reacting by shaking their heads as the vaccine reaches them.
3. Continue walking through the birds until all the vaccine has been sprayed. Walk through the same birds more than once if possible.



TIP: Where stocking densities are low, it may be necessary to pen birds into smaller areas in order to ensure ease of coverage.

Caged birds

Walk slowly along the front of each row of cages spraying directly at each cage. If possible spray from at least two metres away. It may be useful to walk through the house with the fan switched on but without vaccine whilst the ventilation is still in operation in order to clear as much dust from the cages prior to vaccination.

In order to minimise stress to the birds during hot weather it is preferable to carry out vaccination early in the day at the coolest time. Locking ventilation on full for a period of time prior to vaccination in order to lower the temperature may also be useful during periods of hot weather.



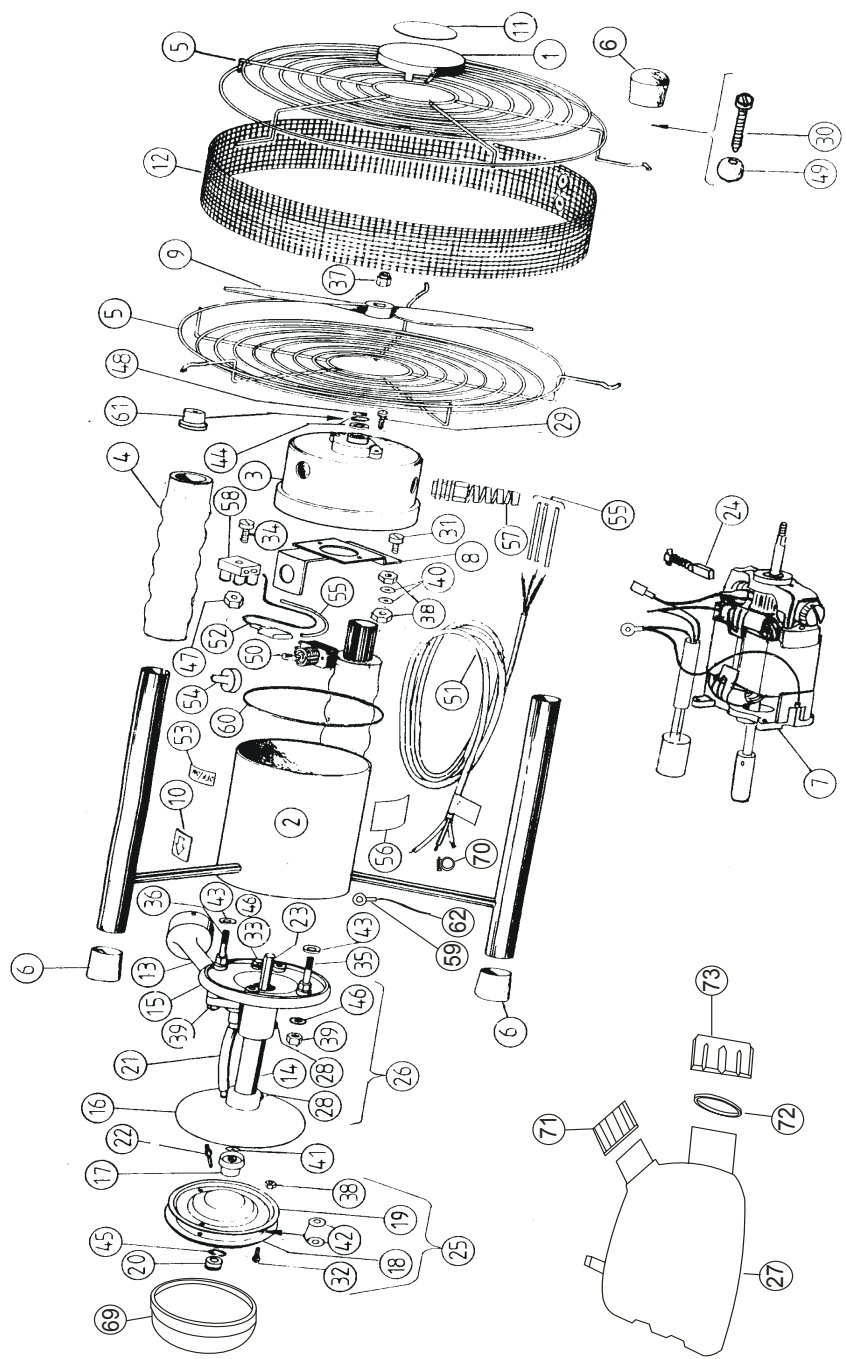
IMPORTANT: RESTORE VENTILATION AND LIGHTS IMMEDIATELY AFTER VACCINATING.

To stop spraying at any stage invert the sprayer to the resting position.

TROUBLESHOOTING

FAULT CHECKING CHART	
Problem	Procedure N.B. always disconnect the sprayer from the battery
Motor fails to start	
1. Switch	Check switch is in ON position.
2. Blown fuse	Remove the plug from the mains supply and check fuses.
3. Stiff or seized motor	Disconnect from the mains supply. The atomiser assembly should be free to turn in an anti-clockwise direction. Some friction from motor brushes is normal but if it is difficult to turn by hand contact your supplier or Service Department at Micron.
4. Loose connection in plug or extension lead	Remove the plug from the mains supply and check that all connections are clean and secure.
5. Faulty switch, internal wiring or motor	Contact your supplier or Service Department at Micron.
Motor runs slowly	
1. Friction in atomiser assembly or motor	Disconnect from the mains supply. The atomiser assembly should be free to turn in an anti-clockwise direction. Some friction from motor brushes is normal but if it is difficult to turn by hand contact your supplier or Service Department at Micron.
2. Poor electrical connections	Check systematically all external wiring and connections.
3. Worn or defective switch contacts	Contact your supplier or Service Department at Micron.
4. Defective motor armature	This is often associated with over-heating. Contact your supplier or Service Department at Micron.
Fails to spray and chemical dribbling from air bleed hole in feed line	
1. Blocked feed nozzle.	Remove spray bottle. Remove and clean feed nozzle (see 'TO CLEAN FEED
Intermittent spraying	
1. Blocked air bleed in feed line	Remove the spray bottle and clean threads on the bottle and in the neck of the feed line. When fitting the bottle into the bottle holder tighten fully and then unscrew by 1/4 of a turn. If this is not done the airbleed may be blocked causing liquid feed to stop. Check the air bleed hole is clear.
Intermittent spraying and excessive contamination of fan and fan guard with repeated blocking of feed nozzle	
1. Blocked atomiser assembly	Remove the spray bottle. Remove and clean atomiser assembly and feed nozzle (see 'TO CLEAN ATOMISER ASSEMBLY' and 'TO CLEAN FEED NOZZLE').

ELECTRAFAN 240 PARTS DIAGRAM



ELECTRAFAN 110/240 PARTS LIST

Item No.	Description	Part No.	Qty.	Item No.	Description	Part No.	Qty.
1	Label plate	T/4103	1	32	Screw, 4.BA x 1/4" brass roundhead	T/5114	3
2	Motor housing with handles	T/A4104	1	33	Screw, 2.BA x 1 - 1/2"	T/5115	1
3	Fan end cover moulding	T/4506	1	34	Bolt, 6.BA x 1/2" roundhead	T/5124	1
4	Hand grip	T/4109	2	35	Screw, D/E 2.BA 1 -5/8"	T/5128	3
5	Circular fan guard	T/4111	2	36	Screw, D/E 2.BA x 2 -5/8"	T/5129	1
6	Plastic cap	7063	6	37	Nut, 1/4" BSF, nyloc	T/5132	1
7	Motor assembly, 110 volt	T/4151)	1	38	Nut, 4.BA, lock, brass	T/5151	5
	Motor assembly, 240 volt	T/4121)		39	Nut., 2.BA	T/5136	5
8	Switch bracket	T/4129	1	40	Washer, 4.BA brass	T/5203	2
9	Fan, 20 x 10 (8 x 4)	T/4130	1	41	Washer, 4.BA brass, large	T/5205	1
10	Label - spray direction	T/4145	1	42	Spacer No.6 x 0.270" x 20 G, S/S	T/5211	6
11	Machine identification label	8677	1	43	Washer, 2.BA x 3/8" o.d.	T/5221	4
12	Outer guard ring assembly	T/B4159	1	44	Washer, 6mm	T/5225	2
13	Bottle holder and feed line assembly	T/A4507	1	45	Washer, DC spring 4.BA	T/5234	1
14	Extension tube and bearing	T/A4509	1	46	Lock washer ext. 2.BA	T/5253	6
15	Atomiser support	T/4511	1	47	Nut, 6.BA	T/5272	1
16	Atomiser back plate with nozzle holder	T/A4512	1	48	Rollpin 3/32" x 1/2"	T/5304	1
17	Atomiser bearing cover	T/4514	1	49	Bead 9.16" plastic	T/5309	3
18	Atomiser disc - front plate	T/4515	1	50	Switch	T/6043	1
19	Atomiser collector plate	T/4516	1	51	Mains cable 3 core 5M	T/A6034-5M	1
20	Atomiser retainer nut	T/4517	1	52	Switch connector lead	T/A6042	1
21	Chemical feed tube (65mm)	T/4518-65mm	1	53	Off/on label	T/6061	1
22	Feed nozzle- 0.9mm	T/4519-0.9mm		54	Switch cover	T/6062	1
	Feed nozzle- 1.1mm	T/4519-1.1mm	1	55	Heat resistant sleeving 4mm dia x 65mm	T/6121	4
	Feed nozzle- 1.3mm	T/4519-1.3mm	1	56	Label, ear defenders	T/6109	1
	Feed nozzle- 1.4mm	T/4519-1.4mm	1	57	Cable gland	T/6110	1
	Feed nozzle- 1.6mm	T/4519-1.6mm	1	58	Electric connector block	T/6113	1
	Feed nozzle- 2.0mm	T/4519-2.0mm	1	59	Connector 2BA Crimp	T/6015	1
23	Atomiser drive shaft	T/4520	1	60	'O' ring (BS 043)	T/6118	1
24	Motor brush	T/4803	1	61	Slinger	T/6119	1
25	Atomiser assembly	T/A4827	1	62	Hose Clip	5287	1
26	Atomiser extension assembly	T/A4828	1		Snap ring internal bore 13mm	T/A4509	1
27	Bottle with cap, 1 litre	5265A	1	69	Atomiser cover	T/2018	2
28	Screw, No.6 x 1/4" S/T	4622	2	70	Wire 1.5mm ² single core green/yellow	7461/60mm	1
29	Screw, No.4 x 5/8" S/T	4677	2	71	Bottle Cap- Black	3216	1
30	Screw, No.10 x 1 - 1/2" S/T	T/5007	3	72	Cork washer	5353	1
31	Screw. 4.BA x 3/8" brass	T/5107	1	73	Bottle cap - black	4489	1

STORAGE

Before storing the ELECTRAFAN 110/240 for long periods clean the fan guard with a small brush to remove any deposits and wipe the metal components with an oily rag to help combat corrosion. **Do not** use a directed water jet to clean the sprayer.

Store the sprayer in a clean dry place away from direct sunlight. The battery should be recharged and stored in a cool dry place.

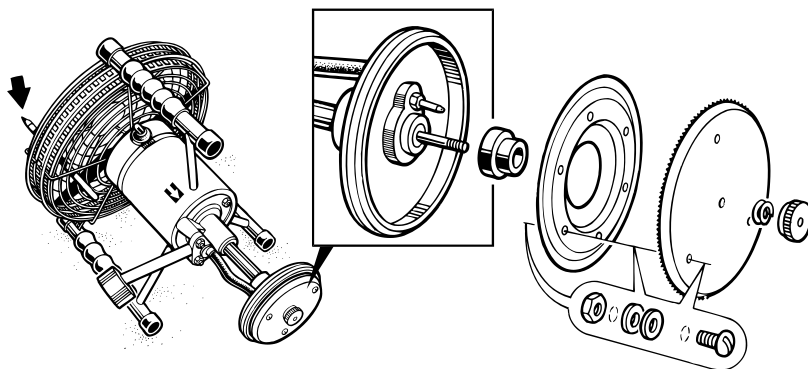
TO CLEAN ATOMISER ASSEMBLY

Always disconnect the sprayer from the mains supply before servicing.

Hold the fan by inserting a pencil or similar between the guard rings near the name-plate. Remove the atomiser spindle nut by turning clockwise when facing the atomiser assembly (left hand thread). If the nut is tight loosen using pliers. Pull off the atomiser assembly, soak in paraffin, preferably overnight, then drain and dry.

Alternatively, dismantle the atomiser assembly by releasing the 3 clamp screws and nuts. Clean carefully. When re-assembling be certain to replace the two spacer washers on each screw before re-fitting the stainless steel rear collector disc.

Check that the bearing cover is in place, then place the atomiser assembly on the shaft, followed by the atomiser spindle nut (left hand thread). To tighten hold the fan as above, turn the nut anti-clockwise until finger tight, then rotate the atomiser assembly anti-clockwise. **Do not** overtighten.



TO CLEAN FEED NOZZLE

Remove the atomiser assembly as above. Remove the bearing cover from the shaft. To do this it may be necessary to tilt the bearing cover so that there is clearance between the outer diameter of the bearing cover and the feed nozzle.

Unscrew the feed nozzle using a 6.BA or 5mm AF spanner and clean carefully with a soft wire, e.g. fuse wire. Clean the feed line with a pipe cleaner. Re-fit the feed nozzle. Before re-fitting the atomiser assembly, screw on a spray bottle filled with either kerosene (when using ULV formulations) or water and detergent (when using water-based sprays) and check for free liquid flow. Re-fit the bearing cover and the atomiser assembly, and tighten as previously described.

TO SERVICE MOTOR AND SWITCH

(Only to be carried out by qualified Service Engineers)

Proceed as follows:

1. Remove handle caps and guard retainer screws.
2. Remove outer fan guard and circular guard ring.
3. Remove fan and inner guard.
4. Remove fan drive pin (tight push in), slinger and washer.
5. Remove switch cover (two retainer screws near fan shaft). Note position of large 'O' ring and ensure this is re-fitted to the motor housing before re-assembly.
6. Gently pull switch cover clear of the fan shaft and move to one side to expose motor brushes, switch and internal wiring.

N.B. Replacement brushes for the motor are available from Micron. If the armature or bearings need replacing, a new motor will be required.


When re-assembling:

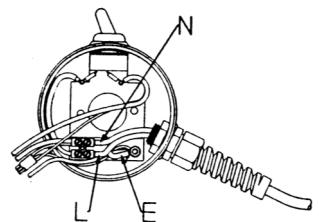
1. Reverse the above procedure.
2. Make sure the fan drive pin is located in the grooves in the fan hub. This prevents the fan shaft from rotating when the fan nut is tightened.

REPLACEMENT OF MAINS CABLE (see also 'ELECTRICAL SAFETY')

Use 5m of PVC sheathed and insulated 3 core flexible cable with 1mm² (32/0.2mm) conductors. Strip outer sheath and refit heat protection sleeving to individual leads using original lead as a pattern.

The diagram below illustrates the correct connections to be made when replacing the cable:

green and yellow wire to the terminal marked  (Earthed)
blue wire to the terminal marked N (Neutral)
brown wire to the terminal marked L (Live)



DECLARATION OF CONFORMITY

Name of manufacturer or supplier: Micron Sprayers Ltd.

Full postal address: Bromyard Industrial Estate,
BROMYARD, Herefordshire

Country of origin: England

Post code: HR7 4HS

Description of Product: Electric powered, hand-held
agricultural spraying machine.

Name and model number of machine: ELECTRAFAN 110/240

Place of Issue: Bromyard, England

Name of authorised representative: G. S. Povey

Position of authorised Representative: Joint Managing Director

DECLARATION:

I declare that as the authorised Representative, the above information in relation to the supply/manufacture of this product is in conformity with the requirements of the Machinery Directive 2006/42/EC, the 73/23/EEC Low Voltage Directive and complies with the relevant essential health and safety requirements.

Signature of authorised Representative:



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