



User Manual



PAINT SPRAY SYSTEM ELECTRIC

DS-FSS 500

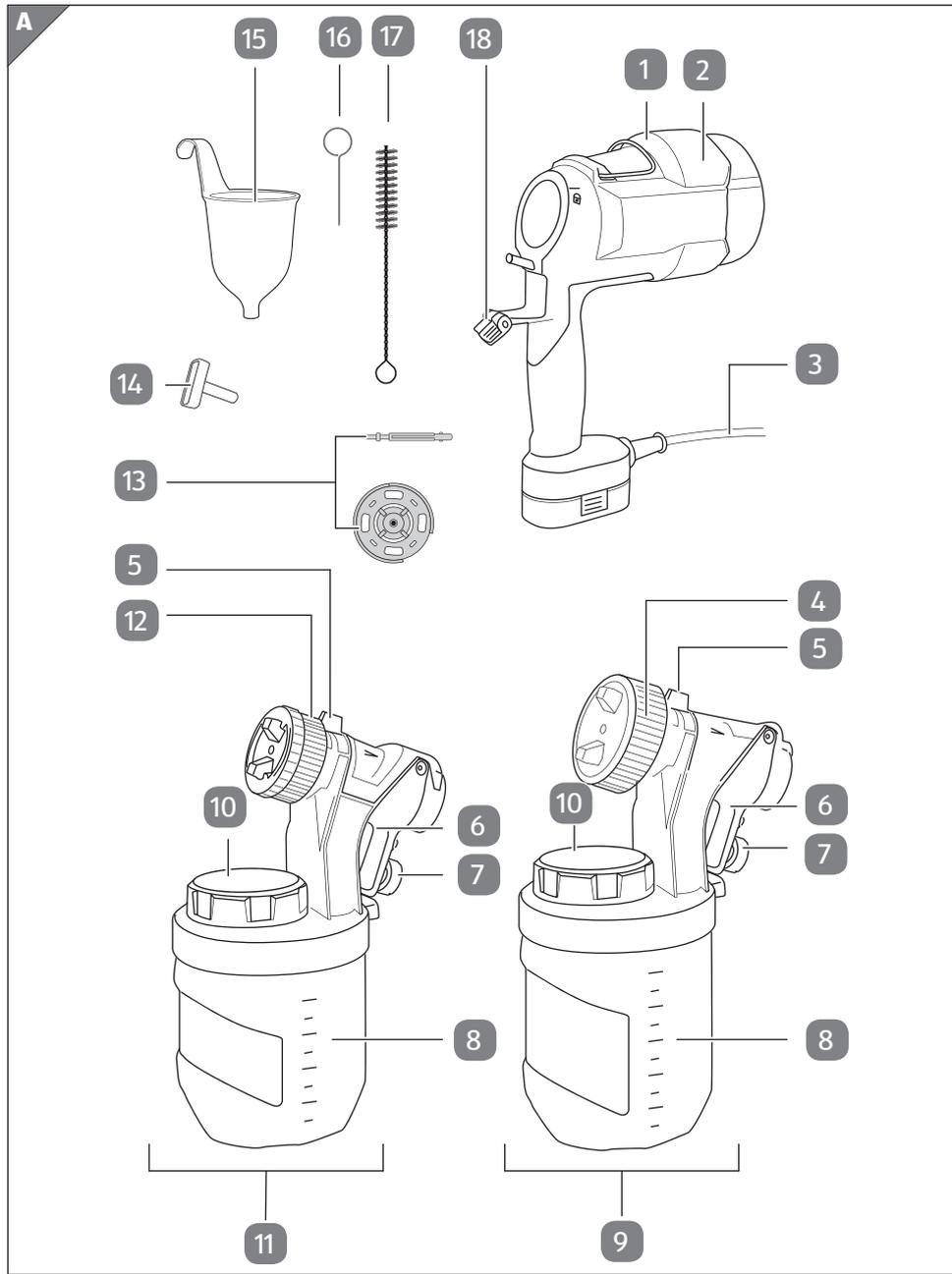


Original instructions

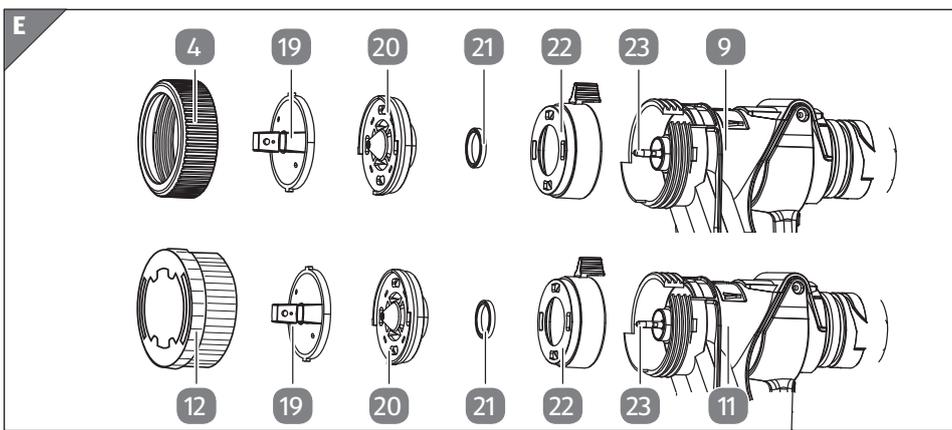
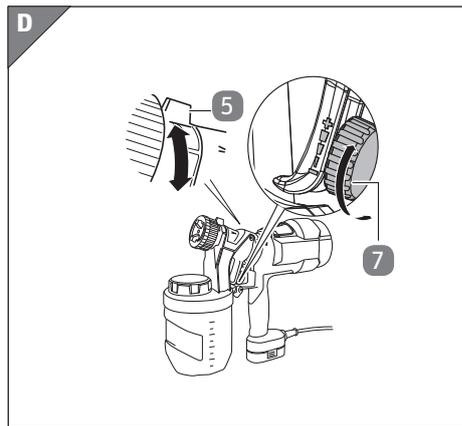
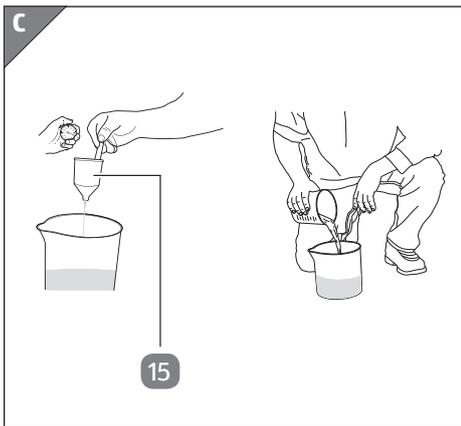
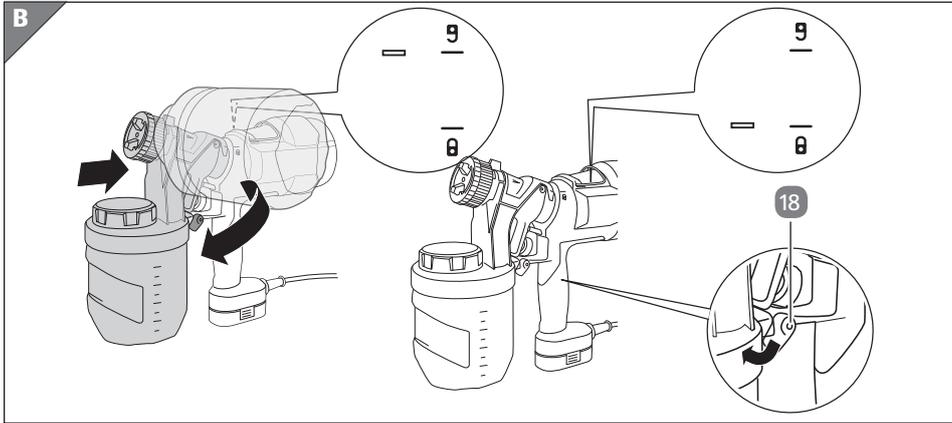
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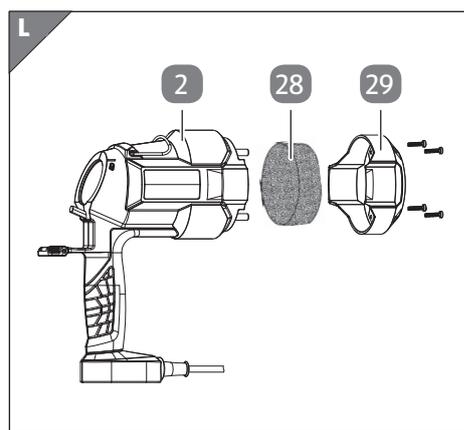
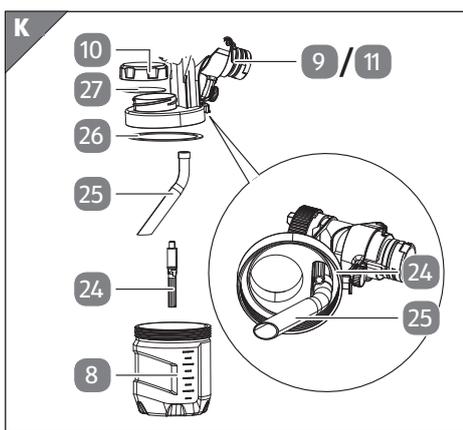
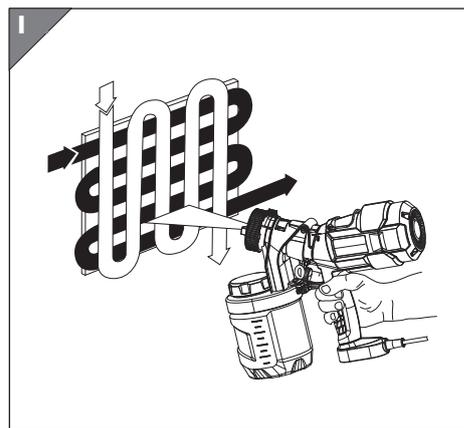
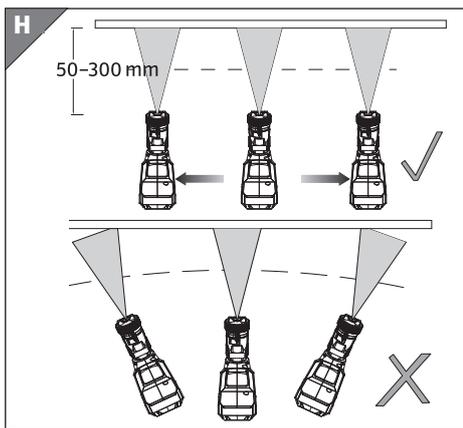
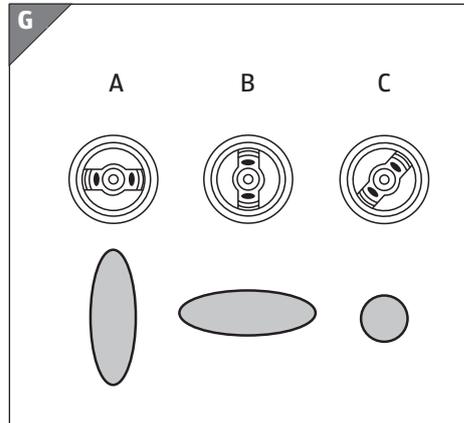
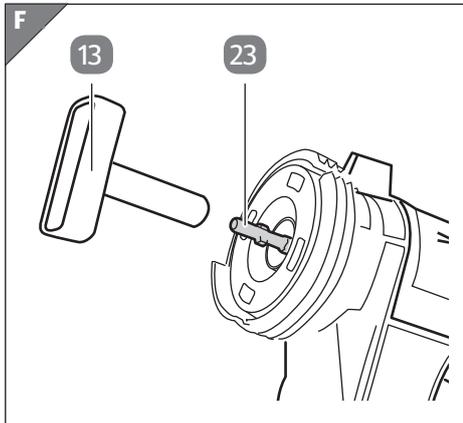
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Package contents



Package contents





Components

- 1 Suspension fixture
- 2 Motor unit
- 3 Connection cable
- 4 Union nut (spraying unit for indoor wall paints)
- 5 Lever for setting the spray width (1x per spraying unit)
- 6 Trigger (1x per spraying unit)
- 7 Setting screw for controlling the material quantity (1x per spraying unit)
- 8 Paint tub (1x per spraying unit)
- 9 Spraying unit for indoor wall paints
- 10 Lid (1x per paint tub)
- 11 Spraying unit for enamels and varnishes
- 12 Union nut with adjusting ring (spraying unit for enamels and varnishes)
- 13 Nozzle set 3.5 mm (needle and nozzle)
- 14 Needle removal tool
- 15 Container for checking the viscosity
- 16 Cleaning needle
- 17 Cleaning brush
- 18 Safety catch
- 19 Air cap (1x per spraying unit)
- 20 Nozzle (1x per spraying unit)
- 21 Nozzle seal (1x per nozzle)
- 22 Twist cap (1x per spraying unit)
- 23 Needle (1x per spraying unit)
- 24 Venting tube (in several pieces)
- 25 Intake tube

Package contents

- 26 Lid seal (1x per lid)
- 27 Tub seal (1x per paint tub)
- 28 Air filter (motor unit)
- 29 Filter cover (motor unit)

General information

Reading and storing the user manual



These operating instructions are a part of this fine paint sprayer. They contain information of importance for your safety, for the use of the product and for its care.

Read through the operating instructions carefully before you start using the fine paint sprayer. Take special care to observe the safety information and warnings. Failure to follow the information in these operating instructions could lead to serious injuries or to damage to the fine paint sprayer. Observe all applicable local and national regulations relating to the use of this product. Keep these operating instructions in a safe place for later reference. If you give the fine paint sprayer to any other person to use, it is essential that you pass on these operating instructions as well.

Explanation of symbols

The following symbols and signal words are used in these operating instructions, on the fine paint sprayer or on the packaging.



WARNING!

This indicates a dangerous situation which, if not avoided, could result in death or serious injuries.



CAUTION!

This indicates a dangerous situation which, if not avoided, could result in minor or moderate injuries.

NOTICE!

Warns of possible damage to property.



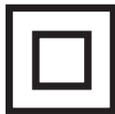
This symbol draws attention to additional information about assembly or use.



Declaration of conformity (see the section “Declaration of conformity”): Products bearing this symbol comply with all applicable Community legislation of the European Economic Area.



Read the operating instructions.



This equipment complies with protection class II.

Safety

Intended use

This fine paint sprayer is designed solely for private users in the hobby and DIY sectors. The fine paint sprayer is suitable for spraying:

- solvent-based and water-soluble indoor wall paints,
- lacquers,
- glazes,
- wood preservatives,
- stains or similar materials.

All other uses are expressly prohibited and are considered to be cases of misuse.

The manufacturer or dealer accepts no liability for injuries, losses or damages which result from improper or incorrect use. Examples of improper or incorrect use include:

- use of the fine paint sprayer for purposes other than those for which it is intended;
- failure to observe the safety information, warnings, assembly instructions, operating instructions, maintenance instructions and cleaning instructions presented in this manual;
- failure to observe any accident prevention regulations, occupational health regulations or safety regulations which apply specifically and/or generally to the use of the fine paint sprayer;
- use of accessories and spare parts which are not intended for the fine paint sprayer;
- modifications to the fine paint sprayer;
- repairs to the fine paint sprayer carried out by someone other than the manufacturer or an expert;
- use of the fine paint sprayer in the crafts sector, commerce or industry;

- operation or maintenance of the fine paint sprayer by persons who do not understand the related hazards and/or are not familiar with handling the fine paint sprayer.

Residual hazards

Even when the fine paint sprayer is used as intended, it is impossible to completely rule out non-obvious residual risks. The following hazards may arise in connection with the nature of the fine paint sprayer:

- damage to the lungs if no suitable protective dust mask is used;
- damage to hearing if no suitable ear protection is used;
- damage to health caused by hand-arm vibrations if the fine paint sprayer is used over a long period of time or is not properly guided and maintained;
- skin irritations/allergies if no suitable protective clothing is used.

Safety information



WARNING!

Read all the safety information and instructions. Failure to adhere to the safety information and instructions set out below may result in electric shock, fire and/or serious injury.

The term “power tool” used in the safety information and instructions refers to power tools operated from the mains power supply (with a power cable) and to battery operated power tools (without a power cable).

1. Workplace safety

- a) **Keep your work area clean and well lit.** Untidy or unlit work areas can result in accidents.
- b) **Do not use this power tool in an area where there is a risk of explosion and where there are inflammable liquids, gases or dust.** Power tools generate sparks that can ignite dust or vapors.
- c) **Keep children and other people away from the power tool while you are using it.** If you are distracted you may lose control of the power tool.

2. Electrical safety

- a) **The plug on the power tool must fit into the socket.** The socket must not be modified in any way. Do not use adapter plugs together with power tools with a protective earth. Unmodified plugs and matching sockets will reduce the risk of an electric shock.
- b) **Avoid body contact with earthed surfaces such as pipes, heating systems, stoves and refrigerators.** There is an increased risk of suffering an electric shock if your body is earthed.
- c) **Keep the power tool out of the rain and away from moisture.** The ingress of water into an electric power tool increases the risk of an electric shock.
- d) **Do not use the power cable for a purpose for which it is not designed, for example to carry the power tool, hang it up or to pull the plug out of the socket.** Keep the power cable away from heat, oil, sharp edges and moving parts. Power cables that are damaged or tangled increase the risk of an electric shock.
- e) **If you use an electric power tool outdoors, use only extension cables that are suitable for outdoor use.** The use of an extension cable which is suitable for outdoor use reduces the risk of an electric shock.
- f) **If you cannot avoid using the power tool in a damp location,**

use a residual current device (RCD) circuit breaker. The use of a residual current device (RCD) circuit breaker will reduce the risk of suffering an electric shock.

3. Safety of persons

- a) Be careful, watch what you are doing and be sensible and responsible when using an electric power tool.** Never use the power tool if you are tired or under the influence of drugs, alcohol or medication. One moment of inattention when using the electric tool can result in serious injuries.
- b) Wear personal safety equipment and always wear safety goggles.** Wearing personal safety equipment such as dust masks, non-slip safety shoes, a helmet or ear muffs, depending on the type and application of the tool, reduces the risk of injury.
- c) Make sure that the tool cannot start up accidentally.** Ensure that the power tool is switched off before you connect it to the power supply and/or connect the battery pack, pick it up or carry it. If you have your finger on the switch while carrying the power tool or if you connect the power tool to the power supply while it is switched on, this may cause accidents.
- d) Remove all adjusting tools or wrenches before you switch on the power tool.** Any tool or wrench in a rotating part of the power tool could cause injuries.
- e) Avoid abnormal working postures.** Make sure you stand squarely and keep your balance at all times. This will enable you to control the power tool better in unexpected situations.
- f) Wear suitable clothes.** Never wear loose fitting clothes or jewellery. Keep hair and clothing away from moving parts. Loose clothing, jewellery or long hair can be caught by moving parts.
- g) If dust extraction devices and dust collection devices can be fitted, they must be connected and must be used correctly.** The use of a dust extractor can reduce the dangers posed by dust.

h) Do not allow yourself to be lulled into a false sense of security and do not ignore the safety regulations covering electric power tools, even if you are familiar with the power tool after having used it many times. Carelessness can lead to serious injuries in just a fraction of a second.

4. Using and handling the power tool

a) Do not overload your power tool. Use the correct electric tool for the job in hand. The correct tool will enable you to work better and more safely within the specific performance range.

b) Do not use an electric power tool if the switch is defective. An electric power tool that cannot be switched on or off is dangerous and must be repaired.

c) Pull the plug out of the socket and/or remove the removable battery pack before making any adjustments to the tool, changing plug-in tool parts or putting the power tool down. These precautions will prevent the power tool starting accidentally.

d) Keep unused electric tools out of the reach of children. Do not allow people who are not familiar with the power tool or who have not read these instructions to use the power tool. Electric tools are dangerous if they are used by inexperienced people.

e) Look after power tools and plug-in tools with care. Check that moving parts function correctly and do not jam, and whether any parts are broken or damaged such that they adversely affect the function of the power tool. Have damaged parts repaired before you use the power tool. Many accidents are caused by poorly maintained electric tools.

f) Keep cutting tools sharp and clean. Carefully maintained cutting tools with sharp cutting edges will jam less and are easier to control.

g) Use the power tool, plug-in tools, etc. as set out in these instructions. Take account of the conditions in your work area

and the job in hand. Using electric tools for purposes other than the one for which they are designed can result in dangerous situations.

- h) Keep the handles and grip surfaces dry, clean and free from oil and grease.** If the handles and grip surfaces are slippery, it will not be possible to operate and control the power tool safely in unforeseen situations.

5. Service

- a) Have your power tool repaired only by trained personnel using only genuine spare parts.** This will ensure that your power tool remains safe to use.

Special safety information for spray guns

- Do not use the spray gun to spray combustible materials.
- Watch out for the hazards that might arise from the sprayed material and pay attention also to the information printed on the containers or issued by the manufacturer of the material.
- Do not spray any materials if you do not know how hazardous they are.
- Wear suitable safety equipment, e.g. a protective dust mask.
- Do not clean the spray gun with combustible solvents.

Supplementary safety information

- Paint mist and solvent vapors are harmful to your health. Work only in well ventilated rooms or with artificial ventilation. Wear work clothing, safety goggles, ear protection and gloves.
- Never direct the spray at persons or animals – risk of injury.
- Never operate the fine paint sprayer with a damaged or missing nozzle seal. If a nozzle seal is missing or damaged, liquid could get into the tool and increase the risk of an electric shock. Check the nozzle seal each time before use.

- Be sure to cover over power sockets and switches with adhesive tape. There will be a risk of an electric shock if spray material gets inside.
- Do not use the fine paint sprayer in premises where the explosion protection directive applies.
- Provide good natural or artificial ventilation in order to prevent the risk of an explosion while spraying.
- When you are spraying, keep away from sources of ignition such as open flames, lit cigarettes, sparks, hot glowing wires and hot surfaces.
- Make sure that no solvent vapors are sucked in by the fine paint sprayer.
- The fine paint sprayer is not a toy. Do not allow children to handle or play with the fine paint sprayer.
- Keep the packaging material, particularly sheets and bags made of plastic film, away from children. There is a risk of suffocation.
- Connect the fine paint sprayer only to a properly installed socket with an earthing contact.
- Connect the fine paint sprayer to the power supply only when the supply voltage at the power socket complies with the specifications on the rating plate.
- Connect the fine paint sprayer only to a readily accessible power socket so that you can disconnect it readily from the power supply in the event of a fault.
- Never hold the fine point sprayer or its power plug with damp hands.
- Position the power cable so that it does not become a tripping hazard.
- Do not kink the power cable and do not place it over sharp edges.
- Always pull the power plug out of the power socket before doing any work on the fine paint sprayer.

- All surfaces and objects that you do not want to spray with the spray material must be covered or removed from the work area. When working with the fine paint sprayer remember that, for example, wind can spread the paint mist over large distances and cause damage.
- Use the spray attachment only with a valve that is in good working order.
- Stop using the fine paint sprayer if paint rises into the ventilation tube. Dismantle the ventilation tube, valve and membrane, clean them and replace the membrane if necessary.
- If the power cable of the fine paint sprayer becomes damaged, it must be replaced by the manufacturer, by one of its customer service centers or by a similarly trained person in order to prevent hazards.

Keep this safety information in a safe place!

Using for the first time

Checking the fine paint sprayer and items supplied

NOTICE!

Risk of damage!

If you open the packaging without care using a sharp knife or other pointed objects, this could quickly cause damage to the fine paint sprayer.

- Open the packaging and take out the equipment with care.
- Remove the packaging material and any packaging and/or transportation braces (if present).
- Check to see if all the items are present.
- Inspect the equipment and accessories for transport damage.
- If possible, keep the packaging until the end of the guarantee period.
- After unpacking the equipment check that it is complete and – to prevent hazards – that it has not been damaged in transit. If you have any doubts, do not use the equipment but contact our customer service center instead. You will find the service address in our warranty terms on the warranty card.

Selecting the material and spraying unit

NOTICE!

Risk of damage!

Non-approved materials could damage the fine paint sprayer.

- Note the list of materials that are approved for use and those that are not approved for use.

Approved materials	Non-approved materials
<ul style="list-style-type: none"> - Indoor wall paint (emulsions etc.) - Solvent-based and water-soluble lacquers - Glazes and primers - 2-component paints, clear lacquers - Vehicle topcoats - Wood preservatives and stains 	<ul style="list-style-type: none"> - Alkaline solutions, acidic coating materials - Combustible coating materials

NOTICE!

Risk of damage!

Improper handling of the fine paint sprayer could result in damage.

- Note the information provided by the manufacturers of sprayable thinners and dilute the paint accordingly if required.
- You can also carry out a spraying test to determine the optimum degree of thinning.
- If you are unable to find any information from the manufacturers, use the guide values listed in the table.
- If the delivery rate is too low, add the thinner in steps of 5–10 % until the delivery rate meets your requirements. Note the maximum permissible degree of thinning quoted by the manufacturer.

- Stir the material thoroughly and thin it in the paint tub in accordance with the thinning recommendation.

Spray material	Thinning recommendation	Nozzle diameter
Glazes, wood preservatives, stains, oils, disinfectants	Unthinned (max. 40 DIN-sec)	1.0 mm
Solvent-based or water-soluble lacquers, primers, vehicle topcoats, 2-component paints, clear lacquers	Thin by 0-10 % (max. 40 DIN-sec)	1.0 mm
Indoor wall paint	Thin by approx. 5-10% (max. 100 DIN-sec)	2.5 mm
All other viscous materials	Max. 150 DIN-sec	3.5 mm

1. Use the container (15) for the viscosity test in order to check whether your paint has the required viscosity (see **Fig. C**). Fill the container for the viscosity test with the required spray material until completely full.
2. Let the spray material in the container run out through the opening in the bottom and note the time it takes for all the spray material to emerge. The time recorded is the basis for calculating the viscosity of the spray material in the unit DIN-sec.
3. If you are unsure about which material to use for your project, ask your paint dealer or a similar specialist.

Filling in the material

1. Remove the spraying unit (9) / (11) from the motor unit (2) as described in the section “Attaching/replacing the spraying unit”.
2. Open the paint tub (8) by unscrewing the lid (10) counter-clockwise (see **Fig. A**).

3. Use a suitable funnel in order to transfer the prepared material into the paint tub without spilling any.
4. Screw the lid clockwise onto the paint tub in order to close the paint tub again. Take care not to tilt the lid while screwing it on and make sure that the paint tub is fully closed.

Attaching/replacing the spraying unit



CAUTION!

Risk of injury!

Improper handling of the fine paint sprayer could result in injuries.

- Do not connect the fine paint sprayer to a power socket until the required spraying unit has been fitted to the motor unit and the paint has been filled in.

Fitting/removing the spraying unit to/from the motor unit

1. Swing down the safety catch (18) on the motor unit (2) as far as possible (see **Fig. A**).
2. Insert the required spraying unit (9) or (11) into the motor unit mount such that the line mark on the spraying unit points to the line mark alongside the symbol **6** on the motor unit (see **Fig. B**).
3. Then turn the motor unit clockwise through 90° as far as it will go. The line mark on the spraying unit must point to the line mark alongside the symbol **6** on the motor unit.
4. Finally, you must swing up the safety catch (18) so that it engages audibly in the cog on the spraying unit.
5. To dismantle the spraying unit (9) or (11) proceed in reverse order.

Operation



CAUTION!

Risk of injury!

Improper handling of the fine paint sprayer could result in injuries.

- Before you begin your work, make sure that the power cable does not become a tripping hazard.
- Always wear the necessary protective equipment such as a breathing mask and make sure there is enough ventilation!

NOTICE!

Risk of damage!

Improper handling of the fine paint sprayer could result in damage.

- The settings and the spray material's behavior can be examined on a test piece.
- Adjust the settings as described below before you start on the real work.

Switching the fine paint sprayer On and Off

1. Connect the fine paint sprayer to the power supply by inserting the power plug in a suitable power socket.
2. Point the fine paint sprayer at the object that you want to be sprayed.
3. Pull the trigger to begin spraying ().
4. Let go of the trigger () to switch off the fine paint sprayer.
5. Disconnect the fine paint sprayer from the power supply by pulling the power plug out of the socket.

Adjusting the spray pattern



Risk of injury!

Improper handling of the fine paint sprayer could result in injuries.

- Avoid pulling the trigger at all costs while you adjust the air cap.
- Each time before making an adjustment you must make sure that the fine paint sprayer is OFF.

You can set three different spray patterns on the fine paint sprayer to suit the application and object (see **Fig. G**):

Position	Pattern	Application
A	Vertical cone	Horizontal surfaces
B	Horizontal cone	Vertical surfaces
C	Round cone	Corners, edges, surfaces that are difficult to access.

Spray pattern of the spraying unit for enamels and varnishes



When you turn the adjusting ring, take care not to loosen the union nut and unscrew it from the spraying unit. After you have set the required spray pattern, tighten the union nut again by screwing clockwise.

- Turn the adjusting ring (**12**) at the union nut clockwise or counter-clockwise in order to move the air cap (**19**) to the required spray pattern position (see **Fig. G**).

Spray pattern of the spraying unit for indoor wall paints

1. Undo the union nut (**4**) a little by turning counter-clockwise.
2. Turn the air cap (**19**) into the required spray pattern position (see **Fig. G**).
3. Tighten the union nut by turning clockwise, holding the air cap firmly as you do so.

Controlling the material volume

With the help of the setting screw for controlling the material volume (**7**) you can set at the trigger (**6**) the supply of the material volume as required. (see **Fig. D**).

There is also a scale for orientation at the trigger.

- To reduce the material volume, turn the setting screw counter-clockwise (-).
- To increase the material volume, turn the setting screw clockwise (+).

Adjusting the spray width

With the help of the lever (**5**) for setting the spray width you can make the spray cone wider or narrower (see **Fig. D**).

- Push the lever for setting the spray width towards or to position Ψ in order to make the spray cone wider (position Ψ = maximum cone width).
- To make the spray cone narrower, push the lever for setting the spray width towards or to position ∇ (position ∇ = minimum cone width).

Changing the nozzle set



This product comes with a 2.5 mm nozzle set (pre-fitted) for spraying unit 9 with 1200 ml tub volume as well as a separate 3.5 mm nozzle set.

For spray material of lower viscosity the manufacturer recommends the spraying unit (11) with the pre-fitted 1.0 mm nozzle and 900 ml tub volume, and for spray materials of higher viscosity the manufacturer recommends the 2.5 mm or 3.5 mm nozzle set.

1. Unscrew the union nut (4) counter-clockwise from the spraying unit (9) for indoor wall paints (see **Fig. A and E**).
2. Remove in forwards direction the air cap (19), the fitted nozzle (20) with nozzle seal (21), and the twist cap (22) from the spraying unit. Note: The lever (5) for setting the spraying width must be in position Υ on the twist cap in order to be able to remove the twist cap from the spraying unit.
3. Guide the tool (14) for removing the needle as far as possible over the fitted needle (23) from the front (see **Fig. F**). Make sure that the hooks on the side of the needle slide into the guide grooves inside the tool.
4. Rotate the tool one quarter of a revolution (90°).
5. With the help of the tool, the needle can be pulled forwards out of the catch in the spraying unit.
6. To separate the tool from the needle, rotate the tool once again through one quarter of a revolution (90°). Make sure that the hooks on the side of the needle run in the guide grooves inside the tool. It must be possible to remove the tool without you feeling any resistance.

7. Insert the needle of the required nozzle set into the mount inside the spraying unit. When doing so, make sure that the needle is correctly aligned for the side grooves at the end of the needle to engage in the corresponding recesses of the mount inside the spraying unit. The needle will engage audibly in the mount. If the needle fails to engage in the mount and can be pulled out again with ease, turn the needle slightly clockwise or counter-clockwise and try again to insert the needle.
8. Put on the twist cap such that the lever for setting the spray width is in position ∇ on the twist cap and extends through the corresponding recess in the spraying unit.
9. Push the nozzle of the selected nozzle set together with the inserted nozzle seal onto the spraying unit. Be sure to align the nozzle such that the edge on the side of the spraying unit engages in the corresponding recess on the side of the nozzle and that the inserted needle is seated in the middle opening of the nozzle.
10. Place the air cap onto the spraying unit such that the two side hooks of the air cap lie inside the corresponding recesses on the side of the nozzle.
11. Screw the union nut clockwise onto the spraying unit.

Instructions for use

NOTICE!

Risk of damage!

Improper handling of the fine paint sprayer could result in damage.

- The spraying results depend on how smooth and clean the surface is before spraying. Carefully prepare in advance the surface to be sprayed and keep it free of dust.
- Areas which you do not want to spray must be well covered.
- Place the fine paint sprayer only on a level and clean surface. This will help to prevent dust and particles of dirt being drawn in.



To become acquainted with the fine paint sprayer, carry out a spraying test on a cardboard box or similar surface. You can then determine which settings are best for the material.

- Begin spraying outside the area to be sprayed and avoid interrupting the spraying inside the area to be sprayed.
- **Right:** Be sure to hold the fine paint sprayer at a constant distance of around 5 to 15 cm (or 20 to 30 cm when working with indoor wall paint) from the surface you are spraying (see **Fig. H**).
- **Wrong:** Failure to keep a constant distance will result in uneven coverage of the surface due to the heavy paint mist produced (see **Fig. H**).
- Move the fine paint sprayer evenly back and forth or up and down depending on which spray pattern is set. Steady movement of the fine paint sprayer will result in uniform coverage of the surface.
- Indoor wall paint in strong colors must be applied at least twice. Let the first layer of paint dry before you apply the second layer. This will produce a better result.
- In the case of poorly covering paints or highly absorbent surfaces you should spray in criss-cross manner (see **Fig. I**).
- If the paint material forms deposits and the spraying results become bad, clean the nozzle and the air cap as described in the section "Cleaning the nozzle".

Care and maintenance

NOTICE!

Risk of short-circuiting and damage!

Damaged switches, power plugs and power cables could cause short-circuiting. Improper handling of the fine paint sprayer could result in damage.

- Power plugs, power cables and switches must be regularly checked for damage.
- Never immerse the motor unit in water.
- Ensure that no water gets into the housing.
- The power plug must be pulled out of the power socket before starting any cleaning work.
- Do not use any combustible materials for cleaning purposes.

Cleaning the spraying unit

NOTICE!

Risk of damage!

Dried-up spray material can clog the spraying unit, making it useless for the next spraying job.

- It is important therefore to clean the spraying unit each time after you use it!

Cleaning the paint tub, the intake tube and the venting tube

1. The power plug must be pulled out of the power socket before starting any cleaning work.
2. Remove the spraying unit (**9**) or (**11**) from the motor unit (**2**) as described in the section “Fitting/removing the spraying unit”.

3. Unscrew the paint tub (**8**) from the spraying unit (see **Fig. A and K**).
4. Dispose of the remaining material properly or put it back into the material can.
5. Pull the intake tube (**25**) and the ventilation tube (**24**) down and out of their catches on the spraying unit. Take care to pull out the whole multi-part ventilation tube (in one piece).
6. Use a cloth to remove coarse dirt and paint residues from out of the paint tub.
7. Use the cleaning brush (**17**) to remove coarse dirt or blockages from the inside of the intake tube, ventilation tube and the mountings of the spraying unit.
8. Re-insert the intake tube and ventilation tube into the corresponding mounts on the spraying unit from underneath. Make sure that the intake tube is correctly aligned when you do: The hook at the top end of the intake tube must run inside the guide groove on the corresponding mount in order for the intake tube to be correctly seated.
9. Fill the paint tub with water or solvent.
10. Screw the paint tub back onto the spraying unit from underneath.
11. Fit the spraying unit back on the motor unit as described in the section “Attaching/replacing the spraying unit”.
12. Connect the power cable to a power socket and switch on the fine paint sprayer, then spray the solvent or water into a container or cloth.
13. Keep repeating until only clear solvent or water comes out.
14. Then fully empty the paint tub and take apart the equipment again for it to dry.

Cleaning the nozzle

1. Dismantle the nozzle you want to clean as described in the section “Changing the nozzle set”.
2. Clean the air cap and the nozzle with a bristle brush and solvent or water. Use the cleaning needle (**16**) to clean any clogged openings.
3. Clean the needles with a lint-free cloth and solvent or water.
4. Finally, check the seals of the nozzles for damage and leave all the parts to dry thoroughly.
5. Re-fit the nozzle as described in the section “Changing the nozzle set”.

Cleaning the motor unit

1. Before beginning with the cleaning, pull the power plug out of the power socket.
2. Remove the motor unit (**2**) as described in the section “Fitting/removing the spraying unit to/from the motor unit”.
3. Wipe the outside of the motor unit with a dry or slightly damp cloth. Make sure that no liquid gets inside the motor.

Changing the air filter

NOTICE!

Risk of damage!

Improper handling of the fine paint sprayer could result in damage.

- The fine paint sprayer is not allowed to be used without an air filter under any circumstances. This could draw in dirt and dust, with a negative effect on the spraying results.
- The air filter should be checked at regular intervals for the accumulation of dirt, dust and similar.

- Check the air filter particularly if you notice a drop in spraying performance or if you can see that dust is collecting at the ventilation openings.
- Change the air filter if it is heavily soiled.



The air filter can be cleaned several times before it needs to be replaced. You should try therefore to clean the air filter before replacing it unnecessarily.

The air filter can be cleaned in various ways:

- With the filter cover in place, clean the air filter with a vacuum cleaner.

or

- Remove the air filter (see the instructions below for fitting and removing) and then beat out or blow out the dirt and dust.
1. Undo the 4 screws holding the filter cover (see **Fig. L**).
 2. Remove the filter cover.
 3. The air filter can now be taken out and a corresponding replacement filter inserted in its place if necessary.
 4. Re-fit the filter cover in reverse order.

Storage

1. Clean the equipment as described in the section “Care and maintenance”.
2. Store the equipment where it is protected from moisture and out of children’s reach.
3. The suspension fixture (**1**) can be used where suitable to hang up the fine paint sprayer. You then have quick access to the fine paint sprayer for regular use.
4. If you do not use the fine paint sprayer regularly or if you do not intend to use it for a long time, protect it when you put it into storage (e.g. place it in its original packaging or in a box).

Spare parts and accessories

You can order suitable spare parts and accessories for your fine paint sprayer via the Internet at: www.Einhell-Service.com.

You will find the latest prices and information there. Please provide the following information when ordering spare parts:

- Type: DS-FSS 500
- Einhell article number: 42.600.33
- ID No. of the fine paint sprayer: 21030
- Spare part no. of the required spare part

Technical data

Model: DS-FSS 500
 Article number: 91604
 Supply voltage: 220-240 V ~ 50 Hz
 Power rating: 500 W
 Protection class: II
 Weight: 2.8 kg
 Tank volume: 900 / 1200 ml
 Ø nozzles: 1.0 / 2.5 / 3.5 mm
 Max. flow rate: 1000 ml/min
 Max. viscosity: 150 DIN-sec

Noise/vibration information



Health hazard!

Working without ear protection or protective clothing may be harmful to health.

- Wear ear protection and suitable protective clothing when using the machine.

The noise and vibration values were determined in accordance with EN 60745-1 and EN 50580.

Sound pressure level L_{pA} : 85 dB(A)

Sound power level L_{WA} : 96 dB(A)

Uncertainty K: 3 dB

Subject to technical changes.

Information about sounds and vibrations

The values stated above are noise emission values and are therefore not necessarily reliable workplace values. From the interrelationship between emission and immission levels it cannot be reliably concluded whether additional precautions are needed or not. Factors with a potential influence on the immission level at the specific workplace include the specifications of the work area and surrounding area, the duration of exposure, other sources of noise, etc. You should also take account of possible deviations in national regulations with respect to permissible workplace values. However, the information referred to above does enable the user to make a better assessment of the dangers and risks involved.

- Vibration value a_h : $< 2.5 \text{ m/s}^2$
- Uncertainty K: 1.5 m/s^2

IMPORTANT!

The vibration emission level (vibration value) quoted above was measured in accordance with a standardized method set out in EN 60745-1 and EN 50580 and can be used to compare one electric tool with another. It can also be used for a provisional assessment of the level of exposure. The actual vibration value can differ with the type of use as explained below:

- condition of the fine paint sprayer or its correct maintenance;
- the type of material and use of the fine paint sprayer;
- use of the correct accessory and its perfect condition;
- the user's firm hold of the fine paint sprayer;
- proper use of the fine paint sprayer as described in these operating instructions.

Inappropriate use of the fine paint sprayer can cause vibration-induced ailments.

IMPORTANT!

Depending on the type and conditions of use, the following safety precautions must be taken to protect the user:

- Try to avoid vibrations as much as possible.
- Use only accessories that are in perfect condition.
- Wear vibration-dampened gloves when you use the fine paint sprayer.
- Provide the fine paint sprayer with the care and maintenance listed in these operating instructions.
- Avoid using the fine paint sprayer at temperatures below 10 °C.
- Plan your work schedule to avoid having to use highly vibrating tools over several days.

Disposal

Disposing of the packaging



Separate the packaging materials by type before disposing of them. Dispose of cardboard in your waste paper container and take plastic film or sheets to your recycling center.

Disposing of the fine paint sprayer

Waste equipment may not be disposed of with normal household refuse!

This symbol draws attention to the fact that under the Directive on Waste Electrical and Electronic Equipment (2012/19/EU) and national laws this product is not allowed to be disposed of with normal household refuse.



Old electrical or electronic appliances should not be disposed of in the household waste!

Should the product no longer be capable of being used at some point in time, **dispose of it in accordance with the regulations in force in your city or county.** This ensures that old appliances are recycled in a professional manner and also rules out negative consequences for the environment. For this reason, electrical equipment is marked with the symbol shown here. You can obtain information about collection points from your local authority, waste management service or an authorised agency for the disposal of waste electrical and electronic equipment.

The reprinting or reproduction by any other means, in whole or in part, of documentation and papers accompanying the products is strictly subject to the express consent of Einhell Germany AG.

Subject to technical changes

Troubleshooting guide

Fault	Possible cause	Remedy
No material at the nozzle.	<ul style="list-style-type: none"> - Nozzle is clogged. - Intake tube is clogged. - Setting screw for controlling the material volume is turned too far to the left (-). - Intake tube is loose. - No pressure build-up in the paint tub. 	<ul style="list-style-type: none"> - Clean the nozzle. - Clean the intake tube. - Turn the setting screw for controlling the material volume to the right (+). - Plug in the intake tube. - Turn the paint tub until tight.
Material drips from the nozzle after spraying.	<ul style="list-style-type: none"> - Nozzle is loose. - Nozzle is worn. - Nozzle seal is worn. - Accumulation of material at the air cap and nozzle. 	<ul style="list-style-type: none"> - Tighten the nozzle. - Replace the nozzle. - Replace the nozzle seal. - Clean the air cap and nozzle.
Atomization is too coarse.	<ul style="list-style-type: none"> - Material viscosity is too high. - Setting screw for controlling the material volume is turned too far to the right (+). - Nozzle is dirty. - Air filter is heavily soiled. - Pressure build-up in the paint tub is too low. 	<ul style="list-style-type: none"> - Thin the material. - Turn the setting screw for controlling the material volume to the left (-). - Clean the nozzle. - Clean or replace the air filter. - Turn the paint tub until tight.
Intermittent ("fluttering") spray	<ul style="list-style-type: none"> - Almost all of the material in the paint tub has been used up. - Air filter is heavily soiled. 	<ul style="list-style-type: none"> - Fill in more material. - Clean or replace the air filter.
Paint runs	<ul style="list-style-type: none"> - Too much material was applied. 	<ul style="list-style-type: none"> - Turn the setting screw for controlling the material volume to the left (-).
Too much paint mist (overspray)	<ul style="list-style-type: none"> - Distance from the object being sprayed is too big. - Too much material is being applied. 	<ul style="list-style-type: none"> - Reduce the spraying distance. - Turn the setting screw for controlling the material volume to the left (-).
Poor coverage on the wall	<ul style="list-style-type: none"> - Material too cold. - Heavily absorbing surface or paint with poor covering capacity. - Distance is too big. 	<ul style="list-style-type: none"> - Wait for the material to reach room temperature. - Spray in criss-cross manner. - Go closer to the object you are spraying.

Declaration of conformity

Einhell Germany AG - Wiesenweg 22 - D-94405 Landau/Isar **EU**

D	erklärt folgende Konformität gemäß EU-Richtlinie und Normen für Artikel	PL	deklaruje zgodność wymienionego poniżej artykułu z następującymi normami na podstawie dyrektywy WE.
GB	explains the following conformity according to EU directives and norms for the following product	BG	декларира съответното съответствие съгласно Директива на ЕС и норми за артикул
F	déclare la conformité suivante selon la directive CE et les normes concernant l'article	LV	paskaidro šādu atbilstību ES direktīvai un standartiem
I	dichiara la seguente conformità secondo la direttiva UE e le norme per l'articolo	LT	apibūdina šį atitikimą EU reikalavimams ir prekės normoms
NL	verklaart de volgende overeenstemming conform EU richtlijn en normen voor het product	RO	declară următoarea conformitate conform directivei UE și normelor pentru articolul
E	declara la siguiente conformidad a tenor de la directiva y normas de la UE para el artículo	GR	δηλώνει την ακόλουθη συμμόρφωση σύμφωνα με την Οδηγία ΕΚ και τα πρότυπα για το προϊόν
P	declara a seguinte conformidade, de acordo com as diretiva CE e normas para o artigo	HR	potvrđuje sljedeću usklađenost prema smjernicama EU i normama za artikl
DK	attesterer følgende overensstemmelse i medfør af EU-direktiv samt standarder for artikel	BIH	potvrđuje sljedeću usklađenost prema smjernicama EU i normama za artikl
S	förklarar följande överensstämmelse enl. EU-direktiv och standarder för artikeln	RS	potvrđuje sledeću usklađenost prema smernicama EZ i normama za artikal
FIN	vakuuttaa, että tuote täyttää EU-direktiivin ja standardien vaatimukset	RUS	следующим удостоверяется, что следующие продукты соответствуют директивам и нормам ЕС
EE	tõendab toote vastavust EL direktiivile ja standarditele	UKR	проголошує про зазначену нижче відповідність виробу директивам та стандартам ЄС на виріб
CZ	vydává následující prohlášení o shodě podle směrnice EU a norem pro výrobek	MK	ja izjavuva slednata soobraznost согласно EU-direktivata i normite za artikli
SLO	potrjuje sledečo skladnost s smernico EU in standardi za izdelek	TR	Ürünü ile ilgili AB direktifleri ve normları gereğince aşağıda açıklanan uygunluğu belirtir
SK	vydáva nasledujúce prehlásenie o zhode podľa smernice EÚ a noriem pre výrobok	N	erklærer følgende samsvar i henhold til EU-direktivet og standarder for artikkel
H	a cikkekhez az EU-irányvonal és Normák szerint a következő konformitást jelenti ki	IS	Lýsir uppfyllingu EU-reglna og annarra staðla vöru

Paint spray system electric DS-FSS 500 (DECO STYLE)

<input type="checkbox"/> 2014/29/EU	<input checked="" type="checkbox"/> 2006/42/EC
<input type="checkbox"/> 2005/32/EC_2009/125/EC	<input type="checkbox"/> Annex IV
<input type="checkbox"/> (EU)2015/1188	Notified Body:
	Reg. No.:
<input type="checkbox"/> 2014/35/EU	<input type="checkbox"/> 2000/14/EC_2005/88/EC
<input type="checkbox"/> 2006/28/EC	<input type="checkbox"/> Annex V
<input checked="" type="checkbox"/> 2014/30/EU	<input type="checkbox"/> Annex VI
<input type="checkbox"/> 2014/32/EU	Noise: measured L_{WA} = dB (A); guaranteed L_{WA} = dB (A)
<input type="checkbox"/> 2014/53/EU	P = KW; L/Ø = cm
<input type="checkbox"/> 2014/68/EU	Notified Body:
<input type="checkbox"/> (EU)2016/426	<input type="checkbox"/> 2012/46/EU_(EU)2016/1628
Notified Body:	Emission No.:
<input type="checkbox"/> (EU)2016/425	
<input checked="" type="checkbox"/> 2011/65/EU_(EU)2015/863	

**Standard references: EN 60745-1: 2009 + A11; EN 50580: 2012 + A1;
EN 55014-1: 2017; EN 55014-2: 2015; EN 61000-3-2: 2014; EN 61000-3-3: 2013**

Landau/Isar, den 05.11.2020

Andreas Weichselgartner/General-Manager

Gao/Product-Management

First CE: 18
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Documents registrar: Patrick Willnecker
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Great care has gone into the manufacture of this product and it should therefore provide you with years of good service when used properly. In the event of product failure within its intended use over the course of the first 3 years after date of purchase, we will remedy the problem as quickly as possible once it has been brought to our attention. In the unlikely event of such an occurrence, or if you require any information about the product, please contact us via our helpline support services, details of which are to be found both in this manual and on the product itself.



PRODUCED IN CHINA FOR:

ALDI STORES LTD. PO BOX 26, ATHERSTONE
WARWICKSHIRE, CV9 2SH.

ALDI STORES (IRELAND) LTD.
PO BOX 726, NAAS, CO. KILDARE.
www.aldi.com

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