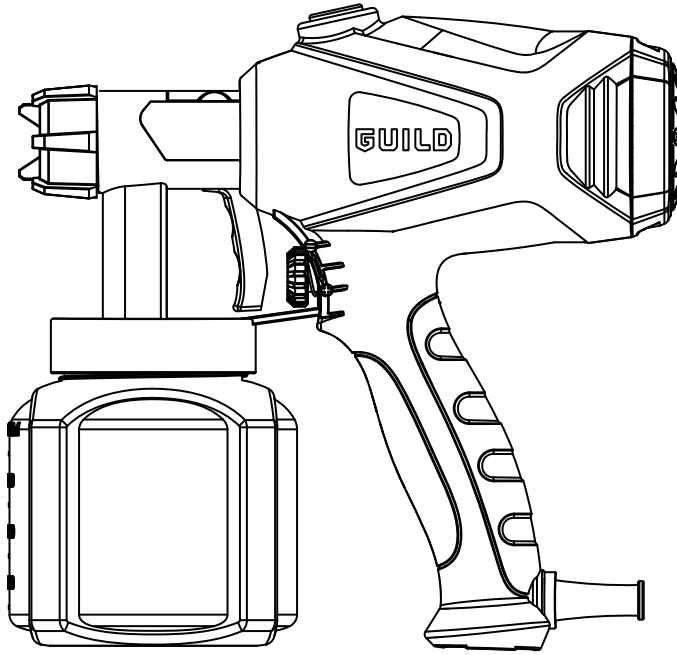
# GUILD
# 350W Spray Gun

**Instruction Manual** **PRG350G**




GUILD

**After Sales Support**

UK/Ireland 0333 3201989
Help@guildpowertools.co.uk

**Important** - Please read these instructions fully before operating or maintaining your Guild belt sander

These instructions contain important information that will help you get the best from your Guild Spray Gun, ensuring it remains safe to operate.
If you need help or have damaged or missing parts, call the Customer Helpline on 0333 3201989

# Contents

# Safety Information

**Important** - Please read these instructions fully before starting assembly

## Warning Symbols

The following warning symbols appear throughout this assembly manual and indicate the appropriate safety measures you should take when assembling and operating the belt sander.

To reduce the risk of injury. Please read the instruction manual

Warning

Wear ear protection

Wear eye protection

Wear dust mask

Double insulation

Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.

Warning: Do not direct the jet at persons, animals and electrical equipment.

# ⚠Safety Information

**Important** - Please read these instructions fully before starting assembly

## General Power Tool Safety Warnings

**WARNING! Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.**
The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

**1) Work area safety**

**a) Keep work area clean and well lit.** Cluttered or dark areas invite accidents.

**b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.

**c) Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

**2) Electrical safety**

**a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.

**b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.

**c) Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

**d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

**e) When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

**f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

**3) Personal safety**

**a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

**b) Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

**c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

**d) Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

**e) Do not overreach. Keep proper footing and balance at all times.** This enables better

# ⚠Safety Information

**Important** - Please read these instructions fully before starting assembly

## General Power Tool Safety Warnings

control of the power tool in unexpected situations.

**f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

**g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

**4) Power tool use and care**

**a) Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

**b) Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

**c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

**d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

**e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.

**f) Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

**g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

**5) Service**

**Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

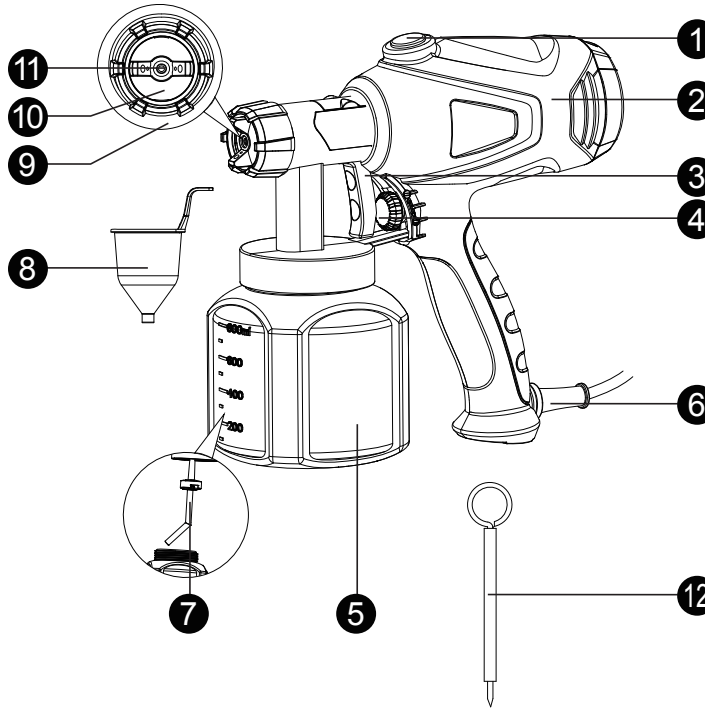
## Spray gun safety warnings

1. Do not use guns for spraying flammable materials.
2. Do not clean guns with flammable solvents.
3. Warning! Be aware of any hazard presented by the material being sprayed and consult the markings on the container or the information supplied by the manufacturer of the material to be sprayed.
4. Do not spray any material where the hazard is not known.
5. Use appropriate personal protective equipment, such as dust mask, protective clothing.
6. Do not clean guns with flammable solvent.
7. Recommendation that the tool always be supplied via a residual current device with a rated residual current of 30mA or less.

# In The Box

## Parts

1. On / Off switch
2. Motor housing
3. Trigger switch
4. Flow rate adjusting knob
5. Tank
6. Power cable
7. Suction pipe
8. Viscosity cup
9. Cap nut
10. Air cap
11. Nozzle
12. Nozzle cleaning needle




# Accessories

| | |
|---|---|
| Viscosity cup | 1pc |
| Nozzle cleaning needle | 1pc |

# Operating Instructions

**NOTE:** Before using the tool, read the instruction book carefully.

**Intended Use**
The spray gun is for spraying non-flammable and non-hazardous paints and varnishes suitable.

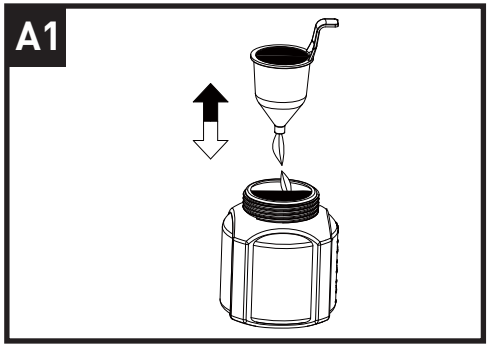
**NOTE:**
- This tool is suitable for solvent-based and water-based paints, finishes, primers, two-component paints, varnishes, automotive topcoats, stains and wood preservatives.
- It is not suitable for alkali, acidic paints and the paints of which flash point is under 21.

**WARNING! The tool cannot be used for spraying of flammable liquids. Do not use the tool for the food, pharmacy or other purposes that are not mentioned in the manual.**

**PREPARATION**
To obtain the best results, it is important that you prepare the paint to be sprayed and thin the paint to the correct viscosity. Before operating, always ensure that the paints to be sprayed are free from dust, dirt and grease. The paint or fluid to be sprayed should be thoroughly mixed and free from lumps or other particles. Many substances can be sprayed with your spray gun, but always check the manufactures recommendations before purchasing your paint.

**1. VISCOSITY MEASUREMENT**
Most paints are supplied ready for brush application and will need to be thinned before they are suitable to be sprayed. Follow the manufacturer's advice on thinning the paint when used with a spray gun. The viscosity cup will help you to determine the correct viscosity of paint to be used.

**To determine the correct viscosity (See Fig. A)**
1) Stir well the paint before the starting to measure.
2) Fill the viscosity cup to the brim with paint.
3) Measure the time in seconds of liquid dripping from the cup into the can until the cup is empty. The measured time is called run-DIN-seconds (DIN-s).



The table below shows recommended run-DIN-seconds for different types of material.
Solvent-based paints----------15-50
Primers----------25-50
Pickling----------no need to dilute
2 Component paints----------20-50
Varnishes----------15-40
Waterborne paints----------20-40
Automotive topcoats----------20-40
Wood preservatives----------no need to dilute

If the paint takes longer than the recommended time to empty, then further thinning is required. Mix in a small quantity of the appropriate thinner and use the viscosity test until the correct thickness is achieved.

**2. ASSEMBLING THE TANK**

1) Remove the tank by unscrewing it in clockwise direction from the spray gun.
2) Fill the tank with paint of the correct viscosity.
3) Adjust the suction pipe direction correctly according to different operating conditions to deplete the material in the tank as much as possible.

**SPRAYING WITH A TILTING ANGLE:**

**Note:** Don't tilt too much.

**Spray to the underlying objects**

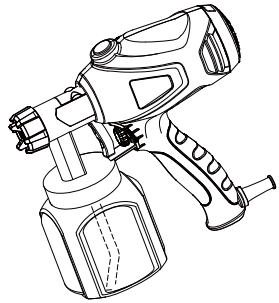
- turn the suction pipe forwards. (SEE FIG. B1)

**Spray to the overhead objects**

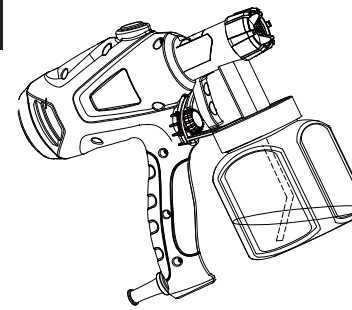
- turn the suction pipe backwards. (SEE FIG. B2)

4) Fill the tank with prepared paint.
5) Assemble the tank back to the spray gun by screwing it tightly in counter-clockwise direction.

**B1**



**B2**



**OPERATION**

**1. ON/OFF SWITCH (SEE FIG. C)**

To start the tool, depress the on/off switch to "I".
To stop the tool, depress the on/off switch to "O".

**2. TRIGGER SWITCH (SEE FIG. D)**

Depress the on/off switch to "I", then squeeze the trigger switch to start the spraying work.

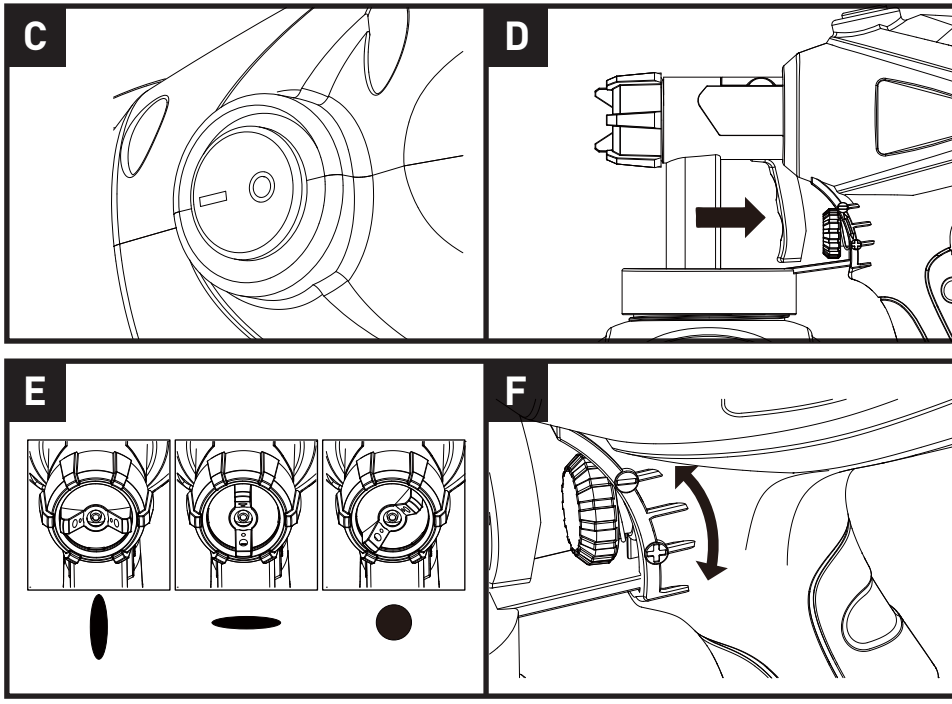
**3. SELECTING THE SPRAY PATTERNS (SEE FIG. E)**

Unscrew the cup nut (9), and turn the air cup (10) to desired position to fit the different operating conditions. Then re-tighten the cup nut.
Following figure shows the air cup position with their corresponding spraying patterns:
A: Air cup is in horizontal position = the spraying shape is vertical: for vertical surface;
B: Air cup is in vertical position = the spraying shape is horizontal: for horizontal surface;
C: Air cup is in oblique position =the spraying shape is circular: for corners, edges and others.

**WARNING!** Never turn the air cup when trigger switch is depressed.

**4. ADJUSTING THE RATE OF FLOW (SEE FIG. F)**

The sprayed capacity can he adjusted by using the flow rate adjusting knob. Adjust the adjusting knob until the best spray pattern is reached. Turn the adjusting knob clockwise (+) to increase the flow rate and turn it counter-clockwise (-) to decrease the flow rate. A poor spray pattern will concentrate the paint in the centre of the spray and give a blotchy finish. A good spray pattern will give even distribution of paint throughout the pattern.



**5. SPRAYING TECHNIQUES**

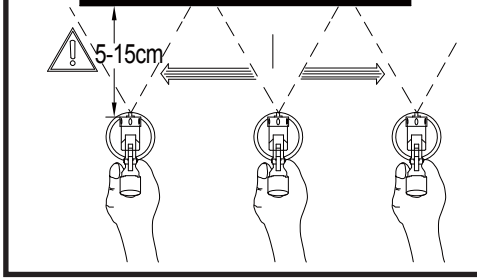
To obtain the best results, keep your spray gun level and parallel to the surface at all times. Keep the nozzle 5~15cm from the surface and spray evenly from side to side or up and down, use smooth and even strokes (See Fig. G1).

**NOTE:**

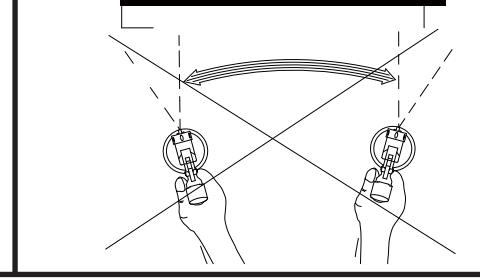
- Make sure that you have masked the areas that should not be sprayed by a good quality masking tape.
- The intended area to be sprayed should be pretreated to be smooth and clean, free from dust.
- Before operating, aim the spray gun at a piece of scrap material and start spraying to find the best pattern and flow rate.

Do not spray as showing in Fig. G2.

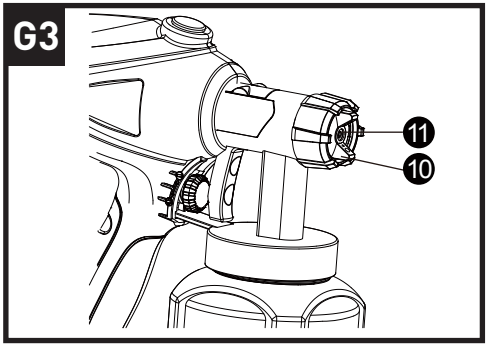
G1




G2



G3



# Clearance and Maintenance

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance. If the supply cord is damaged, a special cord or assembly available from the manufacturer or its service agent must replace it.
Always remember to disconnect the plug from the socket before cleaning the spray gun or paint tank, it is essential that the spray gun is cleaned thoroughly after every use. Failure to clean it will almost certainly result in blockages and it may not operate when you next come to use it.

**WARNING! Do not clean the parts by holding the machine in flowing water. Never clean the parts by submerging the machine in water or thinner.**

The following action must be taken after every use:

1) After switch off the gun, depress the trigger switch again to return the paint remained in the spray gun back to the tank.
2) Remove the tank and pour the remaining liquid back in to the can.
3) Clean the tank thoroughly using paint thinner.
4) Put some suitable thinner into the tank and be sprayed through the spray gun until only clean thinner comes out of the nozzle.
5) Remove the tank, the suction tube and the filter, and thoroughly clean them.
6) Loosen the nozzle slightly, unscrew the locknut and move the nozzle from the cylinder, take the valve out of the cylinder.
7) Clean the nozzle, valve, locknut, cylinder thoroughly with thinner.
8) Use the cleaning pin to clear the nozzle and the swirl head of the valve.
9) Reassemble the spray gun.
10) Clean the outside of the machine with a moist cloth.

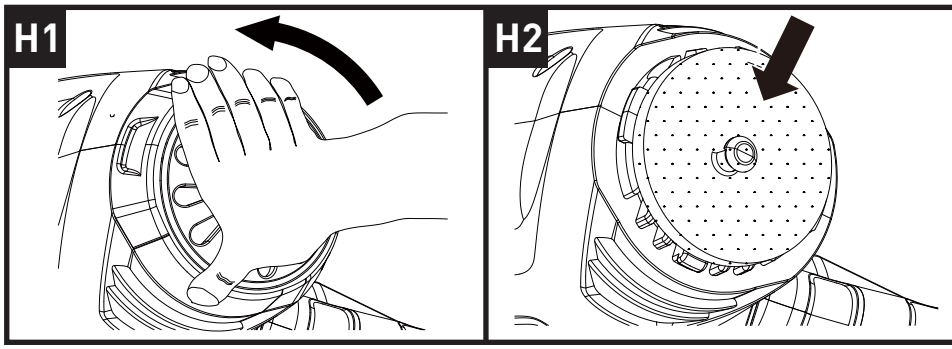
**CLEAN THE FILTER (SEE FIG. H1, H2):**

Remove the filter cover by turning it counter-clockwise. Take the sponge filter out and clean it. Re-install the dry and clean filter back to the tool.

**WARNING!** Do not use the tool without filter, otherwise dirt may be sucked in the tool.

**CLEAR THE NOZZLE/AIR CUP (SEE FIG. H3)**

Clear the nozzle (11) or air cup (10) with solvents or water when the nozzle/air cup is blocked with paint or the paint is accumulated on the air cup. (SEE FIG. G3)



# Troubleshooting

| Symptom | Possible Cause | Remedy |
|---|---|---|
| No spray | Nozzle clogged | Clean the nozzle |
| | Suction pipe clogged | Clean the suction pipe |
| | Flow rate set too low | Turn the adjusting knob clockwise (+) to increase the flow rate |
| | Suction pipe loosened | Tighten the suction pipe |
| | Tank not tightened | Tighten the tank |
| | Paint is too thick | Check the viscosity of the paint and dilute. |
| Paint dropped from nozzle | Nozzle loosened | Tighten the nozzle |
| | Worn nozzle | Replace the nozzle |
| | Paint accumulated on air cap or nozzle | Clean the air cap or nozzle with solvents or water. |
| Spraying too thick | Paint is too thick | Check the viscosity of the paint and dilute. |
| | Flow rate set too high | Turn the adjusting knob counter-clockwise (-) to decrease the flow rate |
| | Low pressure in the tank | Re-tighten the tank |
| Irregular spraying | Not enough paint in the tank | Add enough paint |
| | Dirty filter | Clean the filter or replace it. |
| Liquid dripping while spraying | Flow rate set too high | Turn the adjusting knob counter-clockwise (-) to decrease the flow rate |

# Technical Data

## Technical Data Table

| | |
|---|---|
| Voltage | 220-240V~50Hz |
| Power consumption | 350 W |
| Nozzle size | 2.5 mm |
| Max air volume flow | 500 ml/min |
| Max viscosity | 50 DIN-s |
| Tank capacity | 800 ml |
| Spraying pressure | 0.1-0.2 bar |
| Protection degree | ⧈/II |
| Weight | 0.99 kg |

## Noise Information

A weighted sound pressure $L_{pA}$ :80dB(A)
A weighted sound power $L_{wA}$ : 90dB(A)
$K_{pA}$ & $K_{wA}$=3.0dB(A)
Wear ear protection 80dB(A)

## Vibration Information

| |
|---|
| Vibration total values (triax vector sum) determined according to EN 60745&& EN 50580: |
| Vibration emission value $a_h$ = 7.39m/s$^2$ |
| Uncertainty K = 1.5m/s$^2$ |

**WARNING:** The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:
How the tool is used and the materials being cut or drilled.
The tool being in good condition and well maintained
Using the correct accessory for the tool and ensuring it is sharp and in good condition.
The tightness of the grip on the handles and if any anti vibration accessories are used.
And the tool is being used as intended by its design and these instructions.

**This tool may cause hand-arm vibration syndrome if its use is not adequately managed.**

**WARNING:** To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Helping to minimise your vibration exposure risk.

# Technical Data

**Vibration Information**

Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate)
If the tool is to be used regularly then invest in anti vibration accessories.
Plan your work schedule to spread any high vibration tool use across a number of days.

# Environmental Protection

Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.

# Guarantee

This product is selected for DOMESTIC USE ONLY and not for business use.
This product is guaranteed against manufacturing defects for a period of 24 months. This does not cover the product where the fault is due to misuse, abuse, use in contravention of the instructions, or where the product has been the subject of unauthorised modifications or alterations, or has been the subject of commercial use. In the event of a problem with the product within the guarantee period please return it to your nearest store. If the item is shown to have an inherent defect present at the time of sale, the store will provide you with a replacement. Your statutory rights remain unaffected.

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