

**Earlex**[®]

SPRAY STATION

THE COMPLETE PAINT SPRAYING KIT



OPERATING INSTRUCTIONS

**Thank you for purchasing the Earlex Spray System kit.
This is a highly versatile spray kit and can be used on
a variety of applications.**

**BEFORE USE - PLEASE READ THE SAFETY &
OPERATING INSTRUCTIONS.**

Please retain for future reference

**EARLEX LTD. WILL ACCEPT NO RESPONSIBILITY FOR THE USE OF THIS
PRODUCT IF USED FOR ANY OTHER PURPOSES THAN THOSE
DETAILED HEREIN**



SAFETY OPERATING INSTRUCTIONS

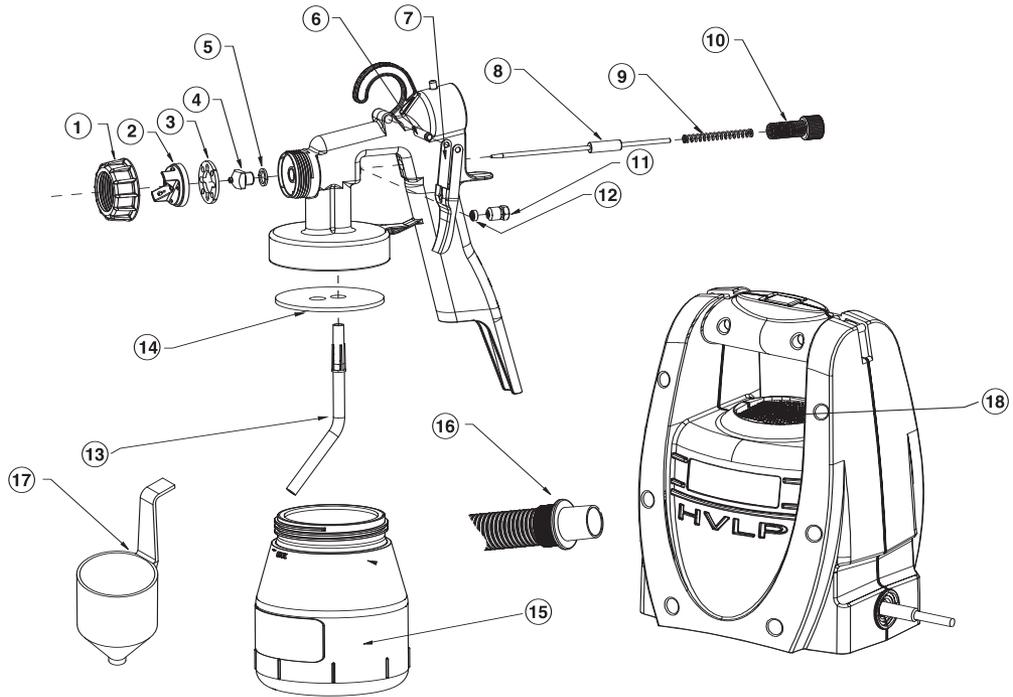
PLEASE READ BEFORE USE

- **NEVER** under any circumstances aim the nozzle at another person or animal. In the event of injury occurring seek expert medical advice immediately.
- The spray gun must only be used with paints and solvents that have a suitable flash point for spraying. If in doubt consult paint or solvent manufacturer's data.
- Always ensure there is adequate ventilation when spraying.
- **NEVER** spray near a naked flame, including appliance pilot flame.
- **NEVER** smoke whilst spraying.
- **NEVER** allow children to operate or play with the spray gun.
- Always read the paint manufacturer's thinning instructions before using.
- Always disconnect unit from mains supply when refilling the paint container.
- Before cleaning, always disconnect unit from the mains supply.
- Always wear the correct protective face mask when spraying. We would also recommend the use of gloves, goggles and overalls.
- After every use ensure that you clean your spray gun thoroughly and grease the gland packing.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Use only genuine manufacturer replacement parts.
- Earlex recommend the use of appropriate ear protection when using this product.
- Sound pressure level: 85dB(A)

WARNING: The substances used with this spray gun (paint, thinners etc) may contain hazardous, harmful, explosive or corrosive materials.
ALWAYS COMPLY WITH THE SAFETY INSTRUCTIONS ISSUED WITH THIS PRODUCT AND THE MATERIAL BEING USED.

Only use the unit as detailed in these instructions.

EXPLODED PARTS VIEW



PARTS LIST

Key Description	Part No.	Key Description	Part No.
01. Air Cap Ring	L0215	10. Fluid Adjusting Screw	L0210
02. Air Cap	L0205	11. Gland Nut	L0208
03. Spray Direction Plate	L0206	12. Gland Seal	L0272
04. Fluid Tip (2.0mm)	L0237	13. Paint Feed Tube	L0214
05. Fluid Tip Seal	L0211	14. Paint Container Seal	L0335
06. Trigger Pin	L0209	15. Paint Container	L0201
07. Trigger	L0202	16. Hose Assembly	L0291
08. Fluid Needle (2.0mm)	L0236	17. Viscosity Cup	SG243
09. Spring	L0216	18. Filter	L0290

IF YOU HAVE ANY PROBLEMS WITH YOUR SPRAY GUN OR IF YOU BELIEVE A PART IS MISSING, DO NOT RETURN TO STORE. PLEASE CONTACT EARLEX LTD ON 01483 454666.

INTRODUCTION

HVLP stands for High Volume, Low Pressure. This is a type of spraying that allows you to spray extremely accurately but without all the overspray that occurs with the high pressure tank type equipment. In fact, in some parts of the world the high pressure systems are banned by law on environmental grounds and HVLP type systems are the only alternative for professional type spraying. This gun is extremely easy to use, very safe and reduces the amount of paint used.

IMPORTANT SELECTING PAINT

This is a highly versatile spray kit that can be used with several different spray mediums including varnishes, wood preservatives, enamels, oil and water based paints and automotive paints. However some materials cannot be sprayed so please check the recommendation of the manufacturer before buying the paint. If a *material* refers to brush application only then it usually cannot be sprayed.

THIS UNIT CANNOT BE USED FOR TEXTURED PAINTS. USE OF THESE MATERIALS WILL CAUSE PREMATURE WEAR, WHICH WILL VOID THE GUARANTEE. TO OBTAIN THE BEST RESULTS FROM YOUR SPRAY KIT PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE USE.

PREPARATION

Preparation of the surface and thinning of the paint are the two most important areas to be concerned with to obtain the best results from your spray kit.

Ensure all surfaces are free from dust, dirt, rust and grease. If necessary rub down with sandpaper, or similar. Masking of areas is important to ensure you do not spray those areas you wish to remain untouched.

THINNING

Your spray kit is supplied with a viscosity cup. Viscosity is a technical term used to indicate if a product is very thin or very thick. If thin, the viscosity is said to be low, while if very thick the viscosity is said to be high.

Viscosity is measured in seconds. In order to spray some materials they need to be "thinned" (diluted).

Thinning is very important when spraying. Most paints are supplied ready for brush application and *may need to be thinned (diluted)* for spraying purposes.

Follow the manufacturers guide for thinning in conjunction with a spray gun. If in doubt please contact the manufacturers of the paint. The viscosity cup supplied will help you determine the correct thickness of the paint. Paint is "thinned" by adding the substance which the paint is based upon. If a water based paint then water is added, if oil based then white spirit.

As some paints, wood preservatives and other sprayable materials contain particles that have grainy material, please ensure that when filling the paint container of the spray gun, that the paint is filtered through either a funnel with a filter on it or through nylon tights or stockings. This will ensure that no large particles enter the paint container, so preventing blockages and providing you with trouble free spraying. Ensure that a face mask, gloves and goggles are worn at all times when spraying.

IDEAL VISCOSITY

Water based paints and emulsions	25 - 50 seconds	Varnishes	No dilution
Oil based paints	45 - 50 seconds	Aluminium paints	No dilution
Wood preservatives	No dilution	Wood stains	No dilution
Primers	45 - 50 seconds	Automotive Paint	Manufacturers ratio

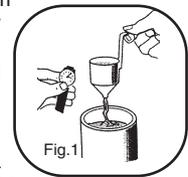
This spray gun can be used with products having a viscosity ranging from 25 to a maximum of 50 *seconds*. Dip the viscosity cup into the material and fill up. Time how long it takes for the viscosity cup to empty (Fig 1).

Using the above chart (or manufacturer's instructions) as a guide determine if the material requires further thinning, if so then thin accordingly.

If the paint requires thinning, start with a 10% dilution of the paint. To do this, fill a 1litre container with the required paint. The viscosity cup supplied with the unit holds 1/10 of a litre, block the hole in the viscosity cup and fill up with the required thinner. Add the thinner to the paint and stir, measure the viscosity using the recommended viscosity chart above.

If the paint requires further thinning, dilute the paint by another 5% (5% will be equal to half a viscosity cup) with the required thinner and measure the viscosity, if the paint is not at it's recommended viscosity, repeat the above step.

Note: Some paints are outside the ranges listed above. Please contact our helpline for further information.



OPERATION

Fill the paint container with the material to be sprayed. DO NOT OVERFILL above MAX level indicator. Push the fluid tube firmly into the base of the spray gun body. Screw the container onto the gun body tightly. Place the motor unit onto a clean surface, free from any loose debris or liquids. Connect the hose to the back of the spray gun. Uncoil the mains cable and plug in.

ALWAYS KEEP THE MOTOR UNIT AS FAR AWAY FROM THE SPRAYING AREA AS POSSIBLE TO PREVENT PAINT CONTAMINATING THE MOTOR.

MASK ANY AREA YOU DO NOT WISH TO SPRAY.

Once you have set up ready to spray, switch on the unit. No paint will be sprayed until the trigger on the spray gun is gently pulled. Before starting any work on spraying actual objects we suggest you spend some time practicing on cardboard or newspaper until you have got used to how the spray gun works

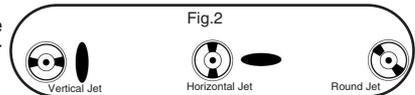
- An airtight seal is essential for the correct operation of this gun.
- Before operating the unit please ensure that the container is securely fixed to the gun body and the gland nut (11) is not loose.
- Over time the gland seal (12) will wear and need adjusting. To check the gland nut is correctly fitted you will need a small adjustable spanner. Pull the trigger back and gradually tighten the gland nut by turning it in a clockwise direction until the needle is not free to move when the trigger is released.
- To obtain the optimum setting gradually unscrew the nut by turning it in an anti-clockwise direction until the needle moves forward into the fluid tip (4). To check your settings are correct spray a container of water. Re-adjust if necessary.

SPRAY PATTERNS

The spray gun has 3 different spray patterns – Horizontal, Vertical and Round (Fig.2)

The horizontal and vertical are recommended for large surfaces. The round spray is used for small objects or for areas - such as corners – that are difficult to reach.

To adjust the spray pattern, loosen the Air Cap Ring (1), adjust the position of the Air Cap (2) to obtain either a vertical, horizontal or round pattern then re-tighten the aircap ring.



PAINT VOLUME

The volume of paint sprayed is easily adjustable. (Fig.3)

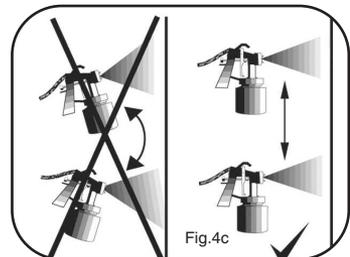
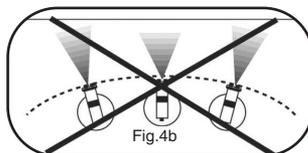
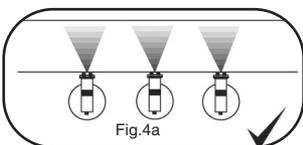
Completely close Fluid Adjusting Screw (10) by turning this clockwise as far as it will go. Whilst pulling the trigger, begin turning the adjustment screw anti-clockwise until the volume of paint you require is obtained.

If the paint spray is too wide or contains too much paint turn the Fluid Adjusting Screw clockwise again. Once the correct spray pattern is obtained you are able to commence spraying.



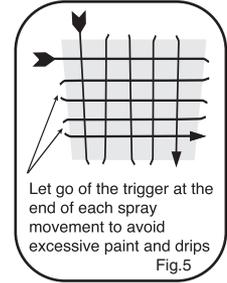
SPRAYING TECHNIQUE

1. To obtain the best results always keep your spray gun level and at an equal distance from the object you are spraying, ideally 25-30cm (10"-12") (side to side or up or down) from the surface. Avoid spraying at an angle as this will lead to runs on the surface (Fig.4a-4c).
2. Let your arm control the left to right movement rather than your wrist as this will help to give you an even paint distribution over the whole area.
3. Do not tip the spray gun to more than a 45° angle when the motor is switched off.
4. You can tip the spray gun at more of an angle when spraying ceilings and decking etc, providing that the motor is switched ON. For spraying at angles, please change the direction of the Paint Feed tube (13) to the opposite angle that you are spraying, where there is more paint in the container.



HELPFUL HINTS

1. Evenly control the speed of movement of the spray gun. A fast speed will give a thin coat and a slow speed will give a thick coat.
2. Only apply one coat at a time. If a further coat is required follow the paint manufacturer's instructions for drying times.
3. If spraying small areas or objects keep the output setting low as this will avoid excessive use of paints and will minimise overspray.
4. When spraying large areas or objects, it is best to use a criss-cross pattern, either from left to right then up or down or vice-versa. This will ensure maximum coverage (Fig.5).
5. Avoid stopping and starting when spraying as this can lead to too much or not enough material on a surface.
6. To ensure edges are covered, commence spraying just to the side of area being sprayed.
7. **CLEAN SPRAYER AFTER EVERY USE (SEE CLEANING INSTRUCTIONS)**



CLEANING INSTRUCTIONS

THE SPRAY GUN MUST BE THOROUGHLY CLEANED IMMEDIATELY AFTER USE. IF THE PAINT DRIES INSIDE THE GUN, CLEANING WILL BECOME MUCH MORE DIFFICULT AND MAY RENDER THE GUN INOPERABLE. THIS IS NOT COVERED BY GUARANTEE.

The spray gun is the same as a paintbrush, if it is not cleaned the paint will go hard and render the gun useless. You must therefore clean this out after use.

SPRAY GUN

- Remove the gun container.
- Pour any leftover paint into its container so that it can be used for the future.
- Pour a quantity of the respective thinner into container, shake the spray gun lightly, reassemble the gun, then spray this liquid through the gun. Repeat this until the thinner being sprayed is coming through with no traces of paint.
- Clean any traces of paint off the outside of the spray gun.
- Clean the container Seal (14) inside the spray gun body.

FLUID TIP & NEEDLE

- Unscrew Air Cap Ring (1)
- Remove the Air Cap (2)
- Completely remove Fluid Adjusting Screw (10)
- Remove the Spring (9)
- Remove the Fluid Needle (8) by gently pulling the trigger
- Remove the Fluid Tip (4)
- Remove Direction Plate noting the position of notches (3)
- Remove Fluid Tip Seal (5)
- Remove Paint Container Seal (14)
- Place all of these items (apart from the foam seal (14)) into a container and clean them using a brush and clean thinners
- Clean the inside of the body of the gun
- Thoroughly dry these parts before reassembling
- Grease the Gland (12). (USE PETROLEUM JELLY. DO NOT USE SILICONE BASED GREASE.)
- Reassemble parts in reverse order.

It is recommended fitting the Fluid Tip (4) prior to the needle

NEVER DISPOSE OF PAINTS OR SOLVENTS INTO DRAINS. CONTACT YOUR LOCAL COUNCIL TO ARRANGE COLLECTION OR FOR DETAILS OF NEAREST REGISTERED DISPOSAL SITE.

TURBINE UNIT

The turbine unit only requires minimal maintenance

- Ensure the Filter (18) is kept clean at all times.
This can be washed out if necessary and replaced when dry. From time to time this filter will need replacing.
- The turbine bearings are sealed and lubricated for life. There is no maintenance or adjustment required.
- Clean the turbine and hose unit with a damp cloth after use.

TROUBLE SHOOTING

PROBLEM	CAUSE	ACTION REQUIRED
The paint drips on to the item being sprayed	Paint too diluted	Add undiluted material
	Paint volume too high	Reduce the paint flow by turning Fluid Adjusting Screw (10)
	Moving too slowly	Increase speed of application
	Spray gun trigger being held for too long	Release trigger earlier
	Spray gun too close	Increase the distance between gun and workpiece
Paint is thin or irregular	Paint too diluted	Add undiluted material
	Paint volume too low	Increase the paint flow by turning Fluid Adjusting Screw (10)
	Moving too fast	Reduce speed of application
	Spray gun clogged	Clean the gun
	Spray gun too far away	Reduce the distance between gun and work piece
No paint being produced	Paint too thick	Add thinner
	Gun clogged	Clean the spray gun
	Pick up pipe clogged	Clean pick up pipe
	Air hose split	Replace air hose
	Grainy paint	Filter the paint
	Container almost empty	Refill container
	Spray gun at an angle	Ensure Paint Feed Tube (13) is angled towards paint
Air intake blocked	Check no paper or loose debris can block the Filter (18)	

PLEASE NOTE: We have done all we can to ensure that used correctly and according to these instructions, this spray gun will give long and trouble free life. We accept no responsibility for damage caused by the use of incorrect or unsuitable substances, paints or fluids which have not been thinned correctly or are unsuitable for the surfaces to which they are applied, health hazards arising from lack of ventilation when working in confined spaces or failure of the equipment due to inadequate cleaning of the components after use. If in doubt, always test a small inconspicuous area first. Always read the paint manufacturer's instructions first. Neither our guarantee nor the above statement affects your statutory rights.

MAINS CONNECTION

This unit is a Class II appliance which means it is double insulated for your protection, no earthing wire is necessary.

If the supply cord is damaged, it must be replaced by Earlex Ltd or our appointed agents.

Your unit has been supplied with a mains lead with a fitted plug. This is identified by the fuse holder in the base of the plug. Please read the following safety instructions before use.

1. If the fitted plug is cut off from the mains lead then the plug must be disposed of safely. **NEVER** under any circumstances insert such a plug into a 13 amp socket.

2. NEVER under any circumstances use the appliance or mains lead without the fuse cover fitted.

This is the little cover fixed into the base of the plug to hold the fuse in place.

3. If you lose the fuse cover then please contact any electrical dealer for a replacement or ring our helpline.

4. A replacement fuse must be rated at 5 amp. These must be manufactured and approved to BS 1362.

5. IF IN ANY DOUBT CONTACT AN ELECTRICIAN.

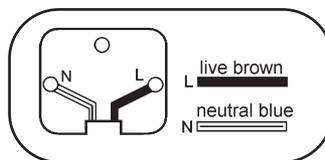
If you need to fit a plug to the mains lead, this should be fitted in accordance with the wiring instructions below, and will need to be used with a 5 amp fuse. If in doubt consult an electrician.

If you are using an extension lead it must be rated at a minimum of 6 amps and fully unwound. Do not operate with a lead rated at less than 6 amps as this will cause premature failure of the motor which is not covered by the guarantee.

As the colours of the wires in the mains lead of the application may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.



INFORMATION ON THE DISPOSAL OF WASTE ELECTRICAL EQUIPMENT KNOWN AS WEEE

Your attention is brought to new directives applicable to the disposal of this electrical equipment, where in accordance with the legislation this product must not be disposed of in your normal household waste. Instead it is your responsibility to dispose of this type of waste by handing it over to special designated collection points for recovery and recycling. This product is marked with a 'Wheelie bin' symbol with a cross on it to remind you of this action. The objective of this directive is to help conserve resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste please contact your local authority, take back facilities are free of charge.



EC Declaration of Conformity
We declare that the unit: HV1900 Conforms to LVD 73/23/EEC, EN60335-1, EMC 89/336/EEC, EN55014-1, EN55014-2, EN61000-3-2, EN61000-3-3, EMF EN50366.

Tim Hopper Technical Director

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EARLEX LTD. WILL ACCEPT NO RESPONSIBILITY FOR THE USE OF THIS PRODUCT IF USED FOR ANY OTHER PURPOSES THAN THOSE DETAILED HEREIN

GUARANTEE

This product is guaranteed for a period of 24 months against faulty manufacture and materials. It is not guaranteed for industrial or hire purposes. The guarantee does not affect your statutory rights. In the event of any problem occurring please contact us on our Helpline No between 8.30 a.m. and 6.00 p.m. Mondays to Fridays (excluding Bank Holidays) or visit our Website on www.earlex.co.uk

HELPLINE No 01483 – 454666

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