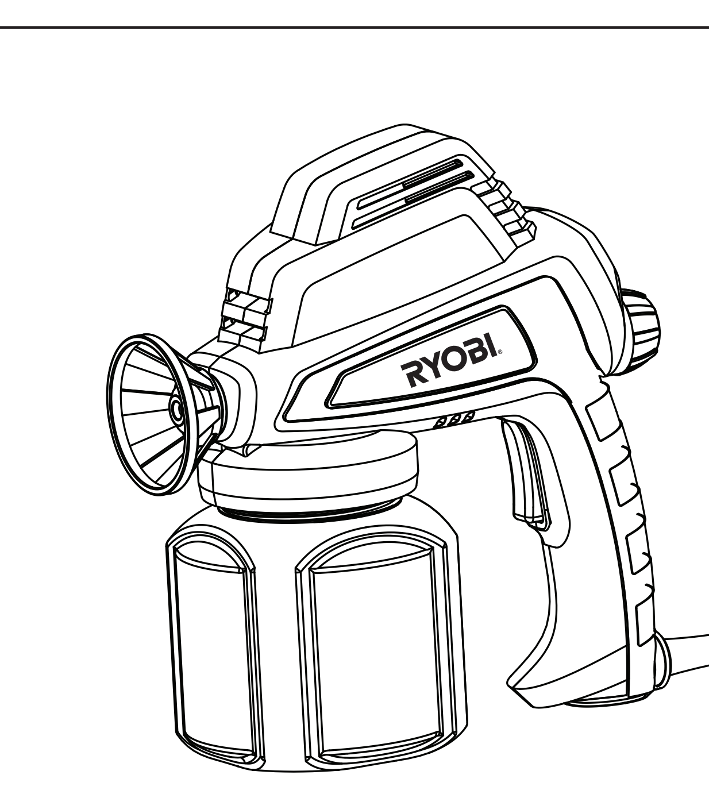
RYOBI

RES-140

OWNER'S OPERATING MANUAL



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DESCRIPTION

Components list

1. Spray nozzle
2. Atomizer assembly
3. Valve
4. Pump housing
5. Spring
6. Piston
7. Suction tube
8. Paint container
9. Filter
10. Trigger switch
11. Spray amount adjustment konb
12. Nozzle cleaning pin
13. Viscosity cup
14. Flexible extension nozzle

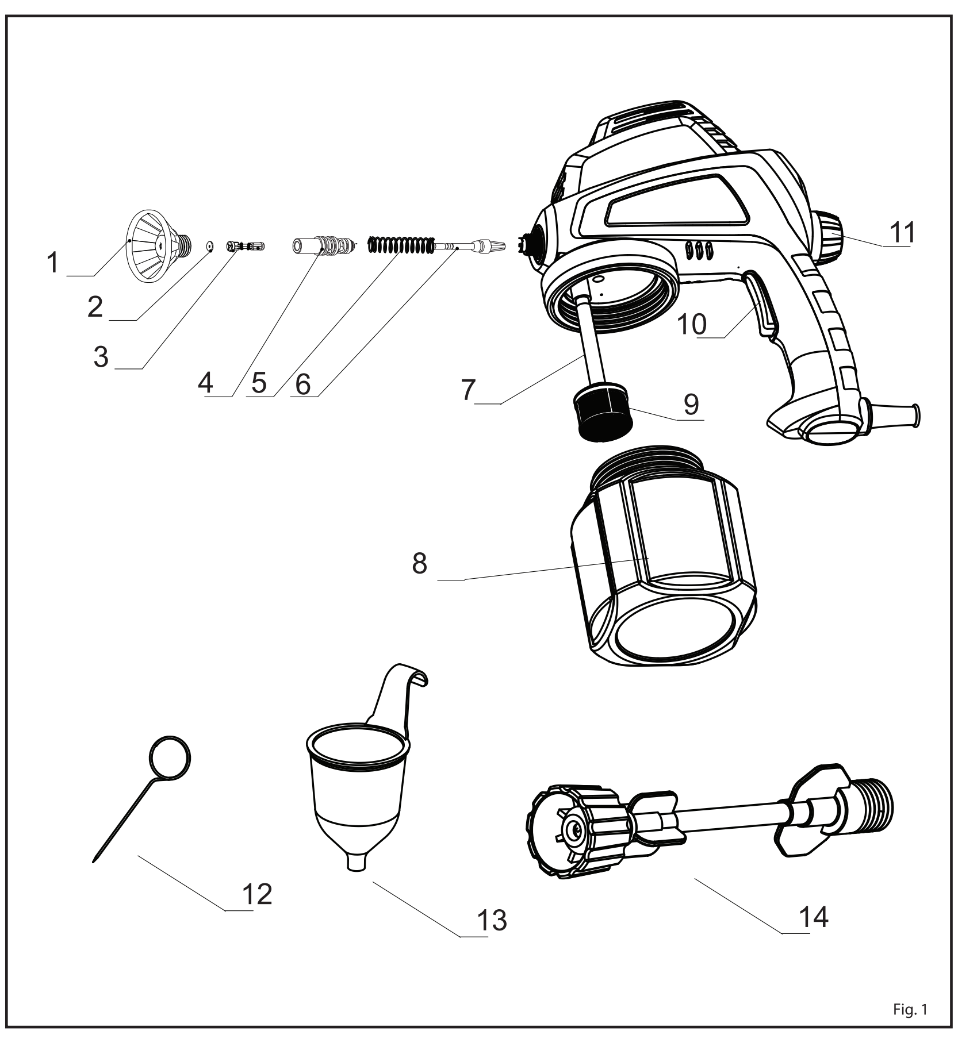

Fig. 1

DESCRIPTION

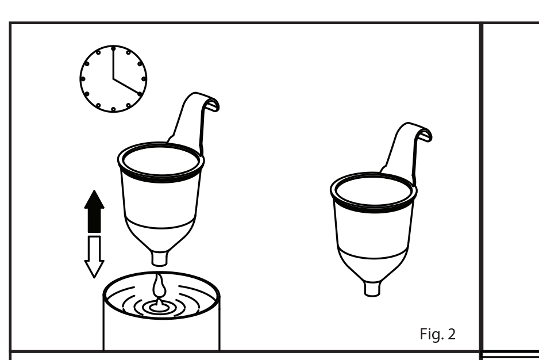

Fig. 2

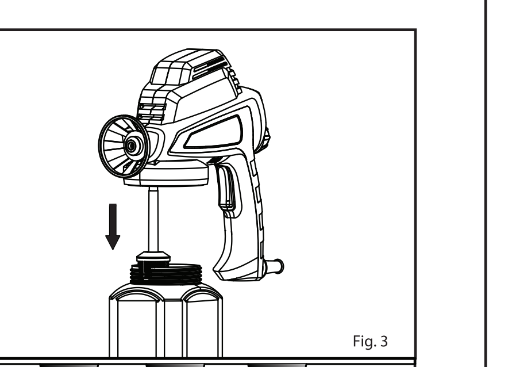

Fig. 3

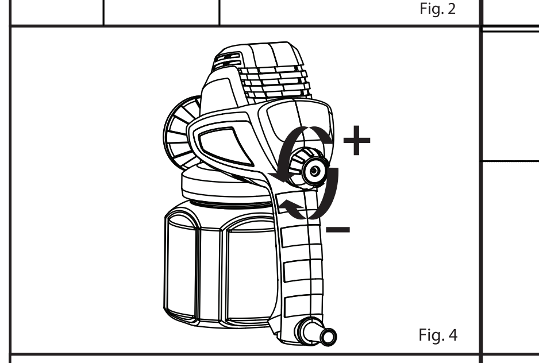

Fig. 4

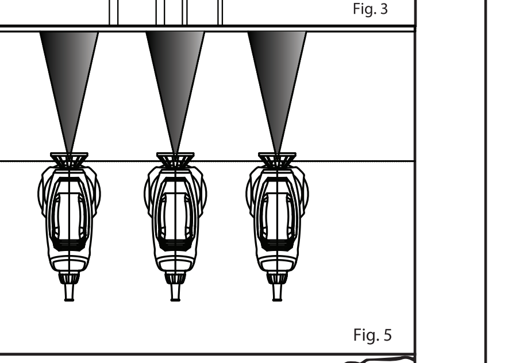

Fig. 5

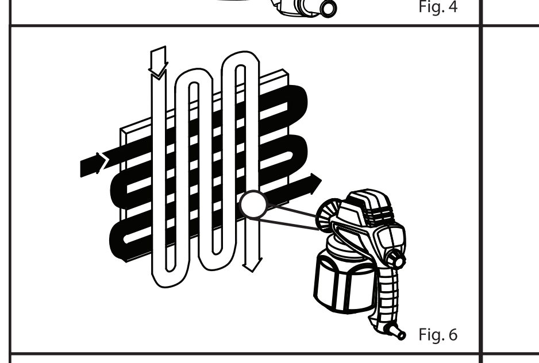

Fig. 6

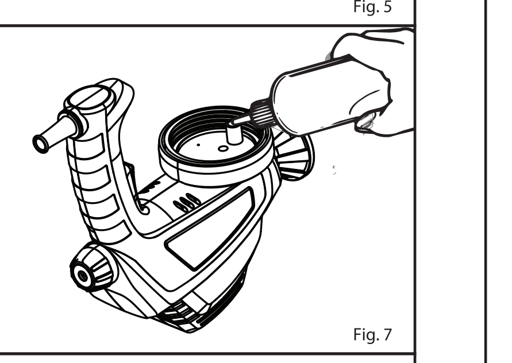

Fig. 7

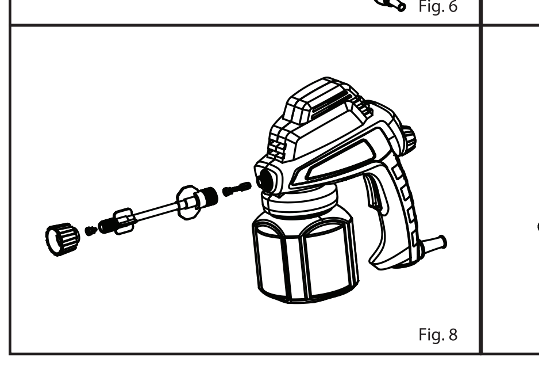

Fig. 8

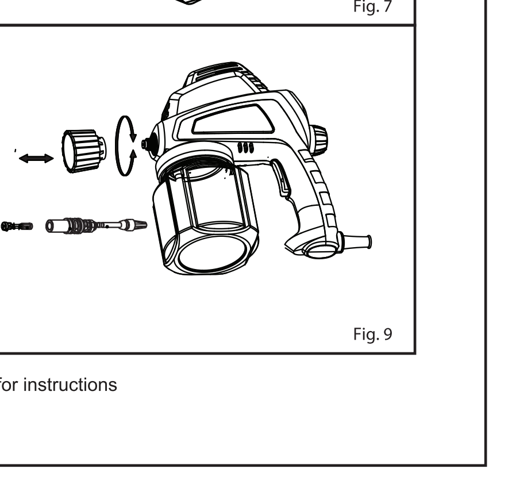

Fig. 9

Please refer to pages 2 - 4 for instructions

THANK YOU FOR BUYING A RYOBI PRODUCT

To ensure your safety and satisfaction, carefully read through this OWNER'S MANUAL before using the product.

SAFETY INFORMATION AND WARNINGS

WORK AREA

- **KEEP WORK AREA CLEAN AND WELL LIT.** Cluttered, dark work areas and benches invite accidents and injury.
- **AVOID DANGEROUS WORK ENVIRONMENTS.** Do not use power tools in damp or wet locations or expose power tools to rain. Do not use power tools in the presence of flammable liquids or gases as normal sparking of the motor could ignite fumes.
- **KEEP CHILDREN, BYSTANDERS AND PETS AWAY.** Bystanders and children should wear safety glasses and be kept a safe distance from the work area. Do not let others make contact with the tool or extension cord. Distractions can cause you to lose control.

ELECTRICAL SAFETY

- **CHECK THE POWER SOURCE VOLTAGE.** Before connecting a tool to a power source (power point receptacle, outlet, etc.) be sure that the voltage supply is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, as well as damage to the tool. If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.
- **POWER TOOL PLUGS MUST MATCH THE OUTLET.** Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.
- **GUARD AGAINST ELECTRICAL SHOCK.** Prevent body contact with grounded surfaces and objects such as water pipes, radiators, cookers and refrigerator enclosures.
- **DO NOT ABUSE THE CORD.** Never carry the tool by its cord or yank it to disconnect it from the socket. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock. Disconnect the tool from the power supply immediately if the supply cable is damaged or cut.
- **EXTENSION CORD.** When an extension cord is used make sure:
  1. That the pins on the plug of the extension cord are the same in number, size and shape as those of the plug on the unit.
  2. That the extension cord is properly wired and in good electrical condition.
  3. That the wire size is large enough for the AC ampere rating of the unit.
  4. Ensure that the male and female plug connection is elevated and out of the way of any water contact.
- **OUTDOOR USE EXTENSION CORDS.** When the tool is used outdoors, use only extension cords intended for use outdoor and so marked.
- **DO NOT EXPOSE POWER TOOLS TO RAIN OR WET CONDITIONS.** Water entering a power tool will increase the risk of electric shock.

PERSONAL SAFETY

- **USE SAFETY EQUIPMENT.** Always wear eye and hearing protection. Safety equipment such as safety glasses, a dust mask, non-skid safety shoes, hard hat, safety gloves or earmuffs, used for appropriate conditions will reduce personal injury. Everyday eyeglasses have impact resistant lenses only, they are not safety glasses. A face or dust mask is also required if dust is going to be created.
- **DRESS CORRECTLY.** Do not wear loose clothing or jewelry, they can be caught in moving parts. Rubber gloves and non-slip Footwear are recommended when working outdoors. If you have long hair, wear protective hair covering.
- **STAY ALERT AND EXERCISE CONTROL.** Watch what you are doing and use common sense. Do not operate a tool when you are tired. Do not rush.
- **DO NOT OPERATE THIS TOOL WHILE UNDER THE INFLUENCE OF DRUGS.** Alcohol or any medication.
- **AVOID UNINTENTIONAL STARTING.** Always check that the switch is in the OFF position before plugging in the tool to the power supply. Do not carry a plugged in tool with your finger on the switch.
- **DO NOT USE TOOL IF SWITCH DOES NOT TURN THE TOOL ON OR OFF.** Have defective switches replaced by an authorised service centre.
- **TOOLS ARE NOT INTENDED FOR USE BY YOUNG OR INFIRM PERSONS WITHOUT SUPERVISION.** Young children should be supervised to ensure that they do not play with the tool.

SAFETY INFORMATION AND WARNINGS

- **REMOVE ADJUSTING KEYS AND WRENCHES BEFORE TURNING THE POWER TOOL ON.** A wrench or a key left attached to a rotating part of the power tool may result in serious personal injury.
- **DO NOT OVERREACH.** Keep proper footing and balance at all times. Do not use tool on a ladder or unstable support. Secure tools when working at elevated levels.
- **CONNECT DUST EXTRACTION EQUIPMENT.** If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.
- **DO NOT ALLOW PERSONS UNFAMILIAR WITH THE POWER TOOL OR THESE INSTRUCTIONS OPERATE THE POWER TOOL.** Power tools are dangerous in the hands of untrained users.

POWERTOOL USE AND CARE

- **KNOW YOUR POWER TOOL.** Read this Operating Manual carefully learn its applications and limitations as well as the specific potential hazards related to this tool.
- **DO NOT FORCE THE TOOL.** The tool will do the job better and safer working at the rate for which it was designed.
- **USE THE CORRECT TOOL FOR THE JOB.** Do not force small tools or attachments to do the job of a heavier duty tool. Never use a tool for a purpose for which it was not intended.
- **THE TOOL MUST BE USED FOR ITS PRESCRIBED PURPOSE.** Any use other than those mentioned in this manual will be considered a case of misuse.The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.
- **SECURE YOUR WORK.** Use clamps or a vice to hold your work. It is safer than using your hands and it frees both hands to operate the tool.
- **DISCONNECT IDLE TOOLS.** Switch off the power and disconnect the plug from the power supply before servicing, when changing accessories and when the tool is not in use.
- **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged have them repaired by an authorised service facility. Inspect extension cords periodically and replace them if damaged. Keep tool handles dry, clean and free from oil and grease. Never use brake fluids, petrol, petroleum based products, or any strong solvents to clean your tools.
- **CHECK DAMAGED PARTS.** Before using a tool, check that there are no damaged parts. If a part is damaged, carefully determine if it will operate properly and perform its intended function. Check for misalignment of moving parts, binding of moving parts, breakage of parts, proper mounting and any other conditions that may affect the operation of the tool. A part that is damaged should be properly repaired or replaced by an authorised service centre, unless otherwise indicated in this Operating Manual. Defective switches must be replaced by an authorised service centre. Do not use a tool if the switch does not turn the tool on and off correctly.
- **DISCONNECT THE PLUG FROM THE POWER SUPPLY BEFORE MAKING ANY ADJUSTMENTS**, changing accessories, or storing the power tool. Such preventative safety measures reduce the risk of starting the power tool accidentally.
- **USE ONLY APPROVED PARTS.** When servicing, use only identical replacement parts. Use an authorised service centre to fit replacement parts.
- **DO NOT MAKE ANY CHANGES TO THE TOOL.** The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes.
- **STORE TOOLS SAFELY.** When not in use, tools should be stored in a dry, high and locked-up place, out of reach of children.

WARNING
This electric tool is manufactured in accordance with the relevant safety requirements. To assure safety and reliability, all repairs should be performed by an Authorised Service Centre or other Qualified Service Organisation.

SPECIAL SAFETY RULES

- Spray materials emerge from nozzle tips under high pressure.

SPECIAL SAFETY RULES

WARNING
Danger of injection - Never point the spray stream towards human beings or animals.

- The spray gun is to be used only for paints and solvents with a 21° C flashpoint or higher (See information on the material tin. Hazard class A II and A III permitted).
- The spray gun is not to be used in work places covered by Ex-protection regulations.
- To avoid the hazard of explosion when spraying, provide for effective natural or artificial ventilation.
- No sources of ignition are to be in the immediate area when spraying, e.g. open flame, cigarettes, sparks, glowing wires and hot surfaces.
- Before carrying out any work on the spray gun, unplug the lead from the power socket.
- Do not use spray guns to spray flammable liquids.
- The spray guns are not to be cleaned with flammable solvents which have a flashpoint under 21°C.
- Take precautionary measures against potential hazards from the spray liquid and follow any instructions given on containers or laid down by the manufacturer of the liquid.
- Do not spray any liquid of unknown hazard potential.
- Wear a breathing mask and ear protection.

SPECIFICATIONS

Power consumption:	80 W
Delivery rate:	250 ml/min
Max. viscosity:	(runout time) 35 sec.
Max. pressure:	140 bar
Round spray nozzle:	0.8 mm
Weight:	1.7 kg
Container capacity:	700 ml
Piston:	Special steel Ø 5.5 mm
Oscillation level:	$9.7 m/s^2$
Sound pressure level:	86.7 dB(A)
Sound pressure output:	99.7 dB(A)

OPERATION

Materials to be used:

- Paints and varnishes containing solvents, acrylic enamel paints, water-soluble varnishes, glazes, polishes, wood preservatives, preservatives, disinfectants, plant protectives, saturants, as well as oils and ot watery liquids.

The following spray substances are not suitable for use:

- Dispersion and latex paints, materials containing strong abrasives, glazes with coarse particles, strippers and caustic solutions, silicate paints. Use of these spray materials can lead to increased wear or corrosion damage in the pump area, which are not covered by the Guarantee.

Preparing the Spray Material

- The paints usually need to be diluted for use with the spray gun. You will find guidelines for sprayable dilutions in the following viscosity table (viscosity = consistency of the paint). You can achieve the correct dilution by using the viscosity test cup.

Handling Table for Viscosity

Spray Material	Viscosity:(Runout time in seconds)
Thinner-soluble varnishes/ primers :	20-35
Water-soluble varnishes / primers:	20-50
Automobile spray paint:	18-22
Wood preservatives, disinfectants, plant protectants, polishes, strippers, oils:	undiluted
Hammer effect enamel:	25-35
Aluminium paints:	20-30

Measuring the Viscosity

- Dip the viscosity test cup completely into the spray material. Hold the test cup up and measure the time (in seconds) until the liquid empties out. Compare the measured "runout time" with the Viscosity Table (fig. 2).

Start-up

- Before connecting to the mains supply, please be sure that the supply voltage is identical with the value given on the rating plate (on the side of the spray gun).
- Dilute the spray material according to the viscosity table.
- Place the container on a sheet of paper and fill it with the prepared spray material.

Attention!
Do not operate the spray gun without spray material in the container.

OPERATION

- Position the spray gun on the container and tighten them together until the container fits tightly (fig. 3).
- Activate the switch to start up the spray gun.
- By turning the adjustment knob you can vary the spray amount (fig. 4).

Spray Technique

- Cover areas that are not to be sprayed. When woriking keep in mind that wind, for example, may transport paint mist over great distances and cause damage.
- Test the spray gun on cardboard or a similar surface to find the correct setting.
- When spraying, hold the spray gun in a horizontal position. Use the flexible nozzle extension for spraying upwards (e.g. a ceiling) or downwards (e.g. an unhinged door laid on the floor). (fig. 8)
- The spray movement should come from the arm, not just from the wrist. This ensures that a uniform distance is maintained between the spray gun and the spray surface during the spray operation (fig. 5).
- To achieve optimal spray results, spray back and forth over the surface (fig. 6).

Cleaning and Maintenance

- The spray gun can only operate satisfactorily if it is cleaned and preserved after each use.

Attention!
Never immerse the spray gun in liquid when cleaning.

- Empty out the remaining paint from the container.
- Put proper thinner in the container and trigger the sprayer for approx. 2 seconds.
- Pull the main plug out of the socket.
- Use the small nozzle from the flexible nozzle extension assembly as a nozzle spanner to disassemble the pump assembly from the machine (fig. 9)
- Disassemble the spray gun thoroughly clean all soiled parts, especially clean the intake and runback holes with the provided nozzle cleaning pin.
- Reassemble the parts in reverse order.

Attention!
Place the intake hole on the pump downwards when reassemble the pump.

- Put a few drops of oil (e.g. sewing machine oil) in the intake and runback holes. Briefly switch on the spray gun. (fig. 7)

Malfunction	Cause	Correction
Spray gun buzzes and does not work:	Piston stuck	Disassemble pump and clean with thinner
	Defective drive	Send spray gun to customer service center
Spray gun does not suck in:	No valve in the pump	Insert valve
Spray gun sucks in but does not spray:	Nozzle clogged	Clean
	Ducts and holes in atomiser clogged	Clean
Spray gun works but sprays unevenly:	Spray material in container running out	Refill
	Spray gun held inclined leading to sucking in of air	Use flexible nozzle extension (see accessories)
	Viscosity of spray material too high (too thick)	Dilute accordingly
	Fine adjustment button not set correctly	Reset according to spray material
	Nozzle worn out	Replace
	Valve worn out	Replace
	Wrong valve inserted	Use correct valve

Environmental protection

The appliance and accessories should be recycled in an environmentally friendly way. Do not dispose of the appliance with household waste. Support environmental protection by taking the appliance to a local collection point or obtain information from a specialist retailer.

Cleaning and Maintenance

Important Note Regarding Product Liability!

- Using other accessories and spare parts can lead to partial or total loss of liability and guarantee claims. With original manufacturer's accessories and spare parts, you have the guarantee that all safety regulations are fulfilled.