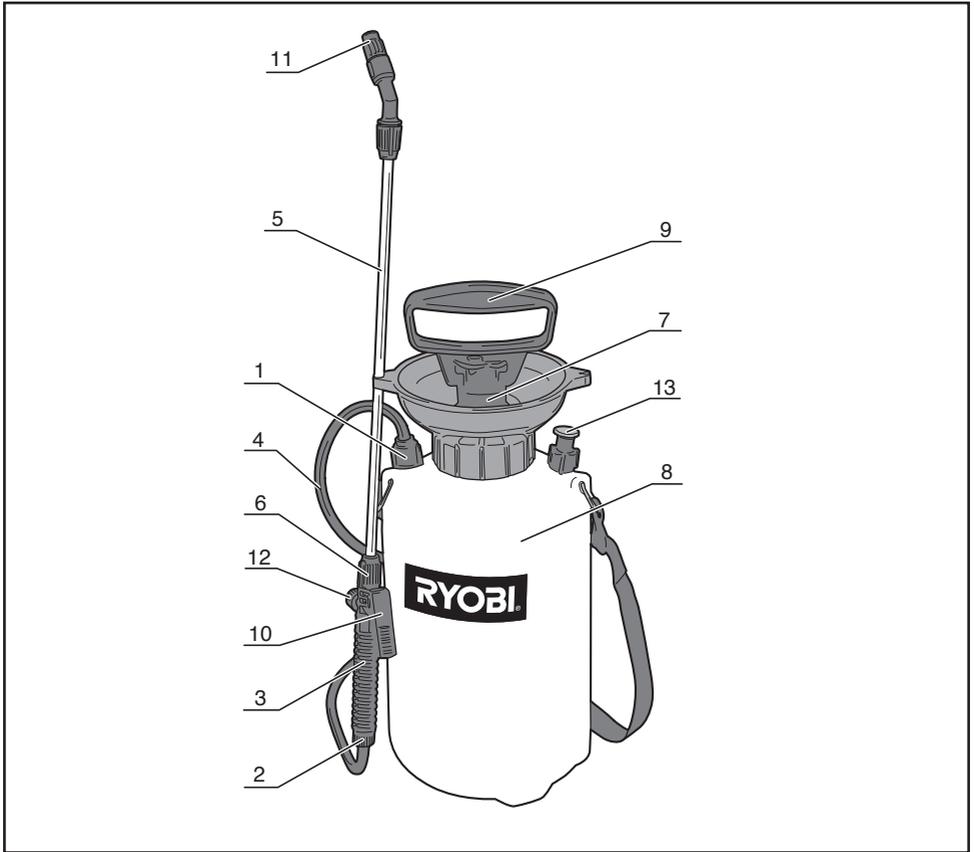


RYOBI®

GS-400, GS-600

Ⓞ OWNER'S OPERATING MANUAL





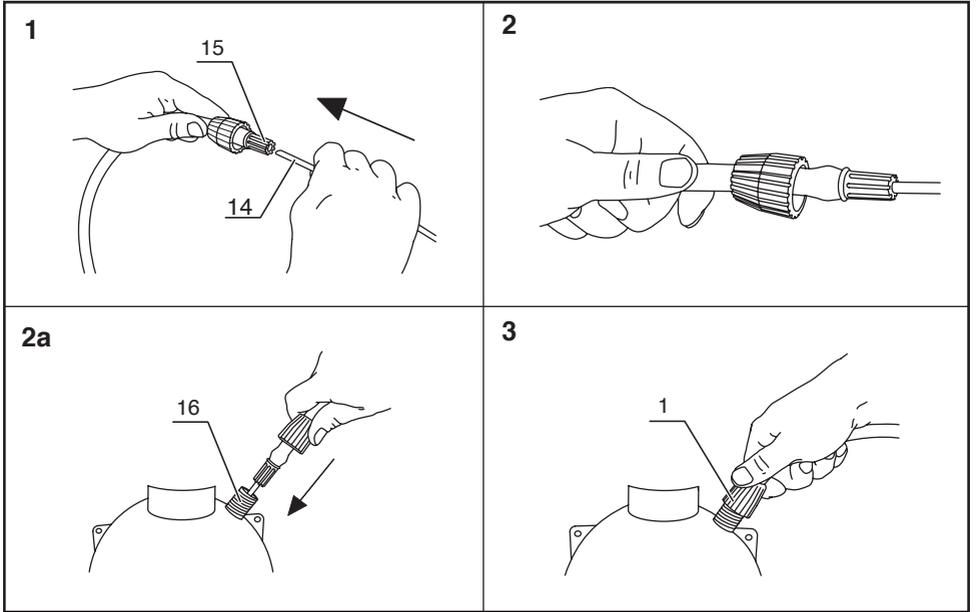


Fig. 2

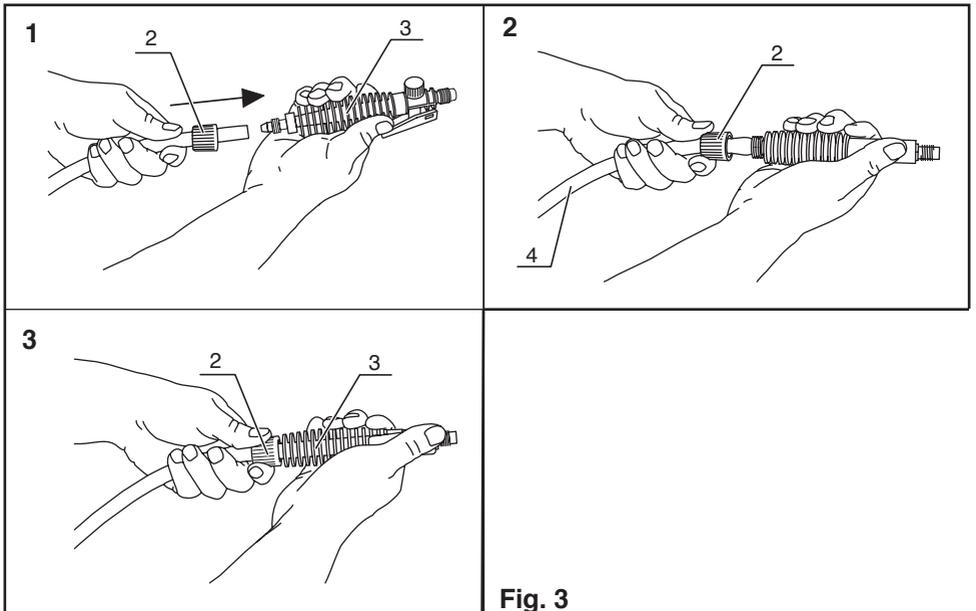
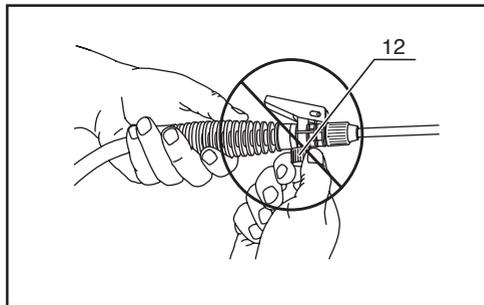
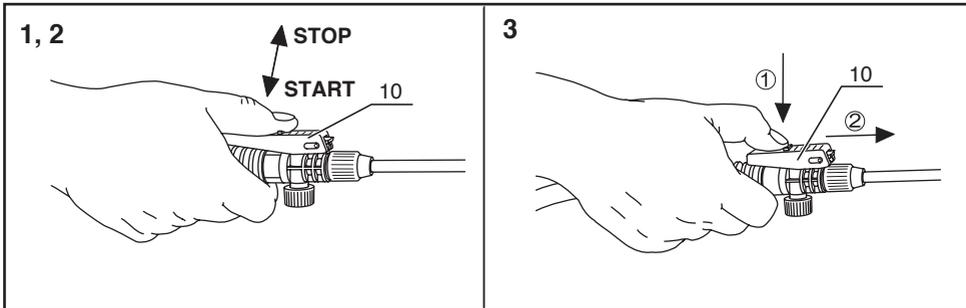
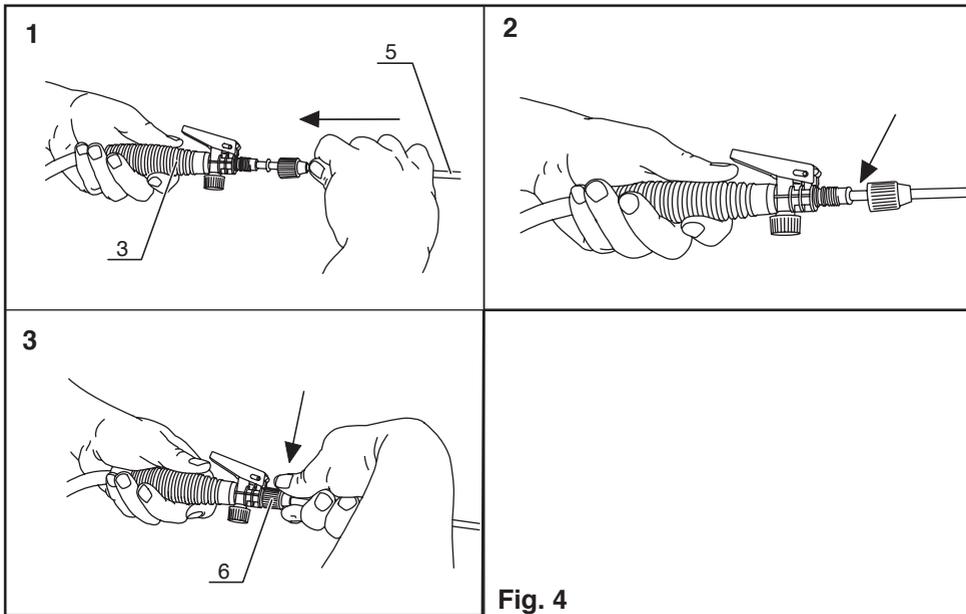


Fig. 3



THANK YOU FOR BUYING A RYOBI PRODUCT.

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

WARNING! THIS PRODUCT IS DESIGNED TO SPRAY CHEMICALS THAT MAY BE HARMFUL AND COULD CAUSE SERIOUS PERSONAL INJURY IF INHALED OR BROUGHT INTO CONTACT WITH THE USER.

WARNING! READ ALL INSTRUCTIONS BEFORE USE. FAILURE TO FOLLOW ALL INSTRUCTIONS LISTED BELOW AND/OR MISUSE OF THIS PRODUCT MAY SERIOUS INJURY.

SAFETY INSTRUCTIONS

1. Wear long sleeve shirts, long pants, gloves, safety glasses, respirator, and protection shoes.
2. Examine the sprayer overall before every time usage and make sure the sprayer is no problem in usage.
3. Do not spray hot water, combustible, corrosive or highly acidic liquids.
4. Do not face directly the upright of the pressure barrel when pump, pressurize or dismantle the pump.
5. Do not expose the sprayer with pesticide under the sun.
6. Once the pressure barrel or rubber duct is damaged or breach, do not pressurize to use.
7. Do not pressurize by means of mechanical devices, such as air compressor.
8. Never fill tank above the top lone on the tank.
9. Before any maintenance, adjustment, cleaning or storing the pump, make sure that pressure in the pump has been released completely.
10. Before storing, wash thoroughly inside and outside of the pump and barrel, then inject clean water into the pump and spray for one minute so as to clean inside.
11. Do not store liquids in the tank.
12. Sprayer should be put in a safety place out of Children's reach.
13. Do not alter the sprayer or any components.

DESCRIPTION

1. Hose nut
2. Flow control hose nut
3. Flow control
4. Hose
5. Wand
6. Wand nut
7. Pump assembly
8. Tank
9. Pump handle
10. Flow control lever
11. Cone nozzle
12. Flow control cap
13. Pressure relief valve
14. Siphon tube
15. Hose insert
16. Threaded tank nipple

SPECIFICATIONS

	GS-400	GS-600
Tank capacity	4littrre	6littrre
Working pressure	0.15 - 0.3Mpa	0.15 - 0.3Mpa
Hose length	1.2m	1.2m
Net weight	1.20kg	1.30kg

ASSEMBLY

HOSE TO TANK ASSEMBLY (Fig. 2)

1. Insert the siphon tube (14) into the hose insert (15) otherwise sprayer will spray only air.
2. Lubricate the o-ring on the hose insert and then push into the threaded tank nipple (16) until fully seated.
3. Screw hose nut (1) onto threaded tank nipple. Firmly tighten it by hand.

FLOW CONTROL TO HOSE (Fig. 3)

1. Remove the flow control hose nut (2) from the flow control (3) and slide over the hose (4).
2. Push the hose over the pointed end of the flow control until it touches the threads.
3. Screw the flow control hose nut onto the flow control. Firmly hand-tighten.

WAND TO FLOW CONTROL (Fig. 4)

1. Push the wand (5) into the flow control until it stops.
2. Slide the o-ring down until it touches the flow control.
3. Screw the wand nut (6) onto the flow control. Firmly hand tighten.

IMPORTANT: TO ENSURE CORRECT ASSEMBLY, TEST SPRAYER WITH WATER BEFORE USING.

FILLING THE SPRAYER

1. Remove the pump assembly (7) from the tank (8) by turning counter-clockwise.
2. Prepare the spray solution following the instructions listed on the chemical manufacturers' label. Mix only the amount of solution to be sprayed.
3. Screw the pump assembly back into the tank by turning clockwise. Firmly hand tighten.

WARNING!

- Do not spray flammable, caustic (i.e. acids, chlorines and bleach), corrosive, heated or self-heating solutions with this sprayer.
- Never fill tank above the top line on the tank.

PRESSURIZING THE SPRAYER

1. Unlock the pump handle (9) by pressing down and turning it until the hooks under the handle are positioned on the slit. Be careful not to loosen the pump.
2. To create pressure, stroke up and down until you feel difficult to stroke down.
3. Lock the pump handle back into the pump assembly by pressing down and turning it.

WARNING! To prevent ejected pump assembly and/or solution from striking and injuring you, never stand with your face or body directly over the top of the tanks when pumping or loosening the pump.

SPRAYING (Fig. 5)

1. To start spraying, squeeze the flow control lever.(10)
2. To stop spraying, release the flow control lever.
3. To spray continuously, squeeze the flow control lever and slide forward to lock on.
4. If your sprayer has an adjustable cone nozzle (11), screw the nozzle clockwise for a fine mist and counter-clockwise for a coarse stream.

WARNING! (Fig. 6)

- DO NOT remove flow control cap (12)while spraying.
- ALWAYS wear long sleeve shirts, long pants, goggles, gloves and durable shoes.



RELEASING PRESSURE

1. To release pressure from the tank, turn the tank upside down, and then squeeze the flow control lever until all the air pressure is gone, or pull the pressure relief valve (13) until all air pressure is gone.
2. If your sprayer is clogged and the pressure will not release using the flow control, do the following:
 - a. Place a rag over the top of the sprayer and pump.
 - b. While firmly pushing down on the pump handle, slowly turn counter-clockwise.

WARNING!

- ALWAYS RELEASE pressure in sprayer before servicing.
- NEVER leave pressurized sprayer unattended.

CLEANING

To prolong its life, clean the sprayer after each use. After using water-based products, rinse thoroughly with soapy water then clean water, being sure to flush out the hose and flow control. After spraying solvent or oil-based products, follow the chemical manufacturers' recommended cleaning procedure, following up with a thorough rinsing and flushing of the sprayer, hose and flow control with soapy water then clean water.

WARNING! Do not store chemicals in the tank. If the chemical is stored in the tank, it can clog the system as it dries and destroy the seals and other components.

STORAGE

1. Remove the complete hose assembly (hose w/siphon tube, wand, flow control) from the tank.
2. For proper drainage and drying, lock flow control lever on.
3. Loosen pump assembly, but leave in the tank.
4. Store all components in a clean, dry area.

WARNING! Store the sprayer in a safety place out of Children's reach.

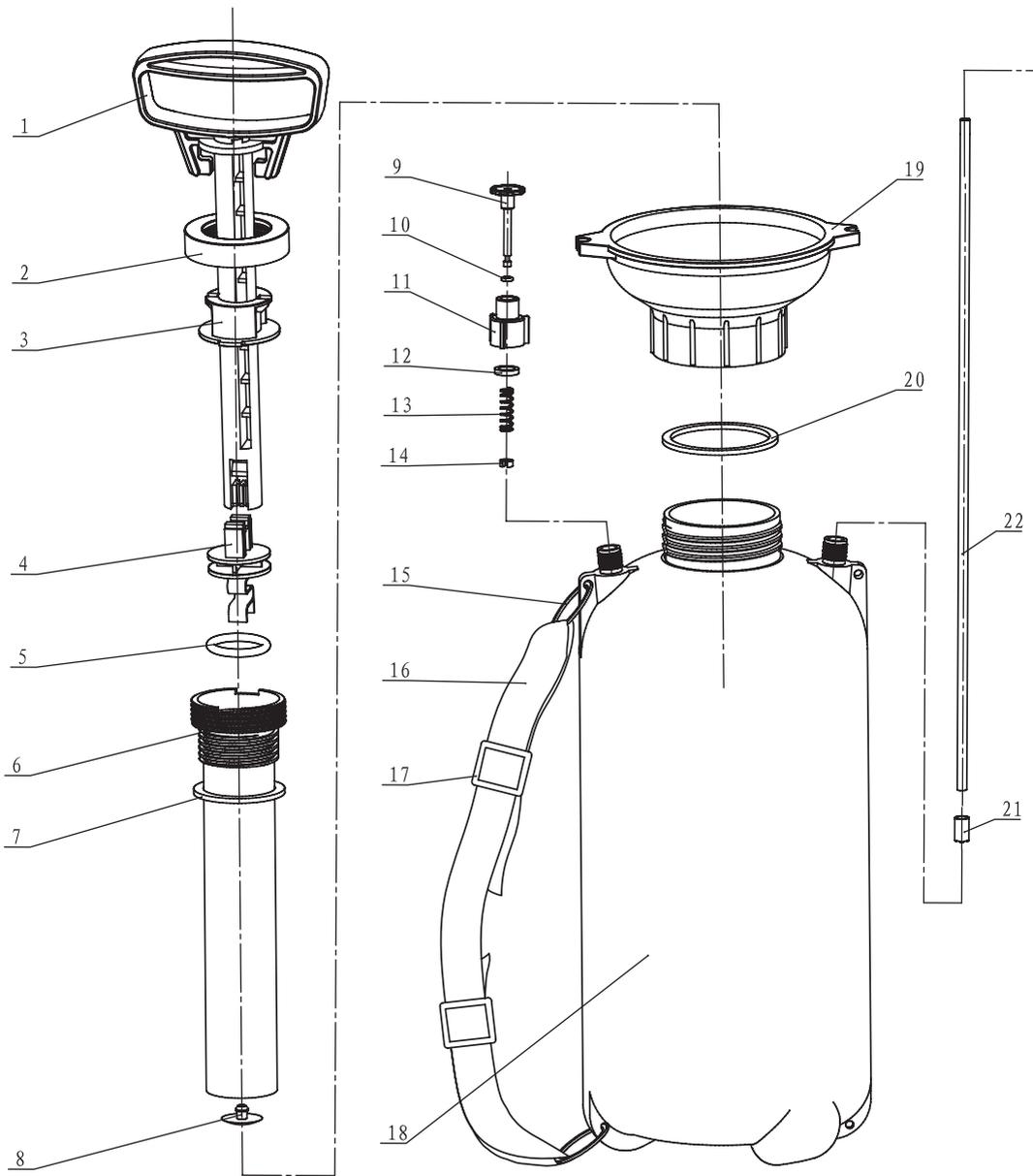
PUMP MAINTENANCE & DISASSEMBLY

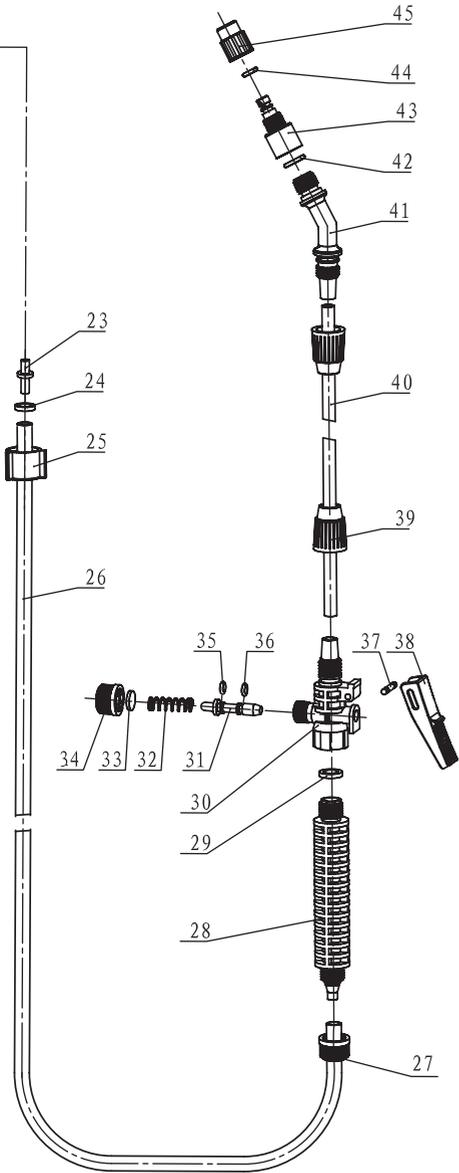
To keep the pump working smoothly and efficiently, the plunger o-ring needs to be lubricated often by applying grease or petroleum jelly around the outside of the plunger o-ring.

1. Remove pump assembly from the tank.
 2. Unlock the pump handle and pull it out as far as it will go.
 3. With a flat blade screwdriver, push down on the tabs on each side of the pump. Pull up and the handle and the plunger assembly should come out of the pump cylinder.
- To reassemble, insert the plunger assembly into the cylinder and snap the cap back into place.

**TROUBLESHOOTING**

PROBLEM	CAUSE	SOLUTION
Pump works hard or does not pressurize the tank.	Plunger o-ring either not lubricated or damaged.	Apply petroleum jelly or grease around outside of plunger o-ring. Check for cracks or other damage and replace if necessary.
Spray solution or air leaks into pump cylinder.	Check valve on bottom of cylinder is prevented from sealing by dirt, residue or damage.	Remove the pump assembly and examine the check valve. Clean if dirty; replace if necessary.
Hose leaks air at tank connection.	Tank nut is loose.	Tighten hose tank nut.
	Hose insert o-ring is damaged.	Replace hose insert o-ring.
Flow control leaks.	Improper assembly.	Refer to "Flow Control to Hose" and "Wand to Flow Control" assembly instructions.
Bad spray pattern or low spray volume.	Nozzle is clogged.	Remove nozzle and clean; remove wand and clean.
	Low pressure in sprayer.	Re-pressurize the tank.
Nozzle leaks when flow control is closed.	Flow control remaining open (lever is locked on).	Completely disassemble flow control. Inspect all components, clean and lubricate all seals or replace flow control.
Leak at tank opening.	Pump assembly not sealed tightly into tank.	Thoroughly clean pump cylinder gasket or o-ring and surrounding area and apply grease or petroleum jelly to pump gasket or o-ring.
	Damaged pump cylinder gasket or o-ring.	Replace gasket or o-ring.
Fluid leaks from pressure relief valve.	Tank is over filled.	Release pressure by following "Releasing Pressure" instructions. DO NOT USE the pressure relief valve for releasing pressure. Remove excess fluid.





Ref. No	Description
1	pump handle
2-8	pump assy
2	pump link
3	press the guide sleeve
4	cup block
5	bowl
6	air tube
7	felt washer
8	vent plug
9	pressure relieve valve lever
10	O-ring
11	pressure relieve valve body
12	O-ring
13	spring
14	block
15	key loop
16	back belt
17	Belt clamp
18	tank
19	add liquid outlet
20	O-ring
21-27	combination hose
21	small mash
22	induction manifold
23	seal embedded parts
24	O-ring
25	hose nut
26	hose
27	flow control hose nut
28-38	flow control
28	flow control
29	O-ring
30	flow control body
31	pressure shaft
32	spring
33	O-ring
34	flow control cap
35	O-ring
36	O-ring
37	shaft
38	flow control lever
39-45	spray lance and nozzle assy
39	Wand nut
40	case nut
41	case nut
42	O-ring
43	nozzle connecrer
44	O-ring
45	cone nozzle

RYOBI POWER EQUIPMENT WARRANTY

Subject to the warranty conditions below, this RYOBI tool (hereinafter called "the Product"), is warranted by Ryobi (herein called "the Company") to be free from defects in material or workmanship for a period of 24 months from the date of original purchase covering both parts and labour. Under the terms of this warranty, the repair or replacement of any part shall be the opinion of the Company or its authorised agent. Should service become necessary during the warranty period, the owner should contact the authorised Ryobi retailer from whom the product was purchased, or the nearest Company branch office. In order to obtain warranty service, the owner must include the Sales Docket and Warranty Certificate to confirm date of purchase. This Product is sold by the dealer or agent as principal and the dealer has no authority from the Company to give any additional warranty or guarantee on the Company's behalf except as herein contained or herein referred to.

Warranty Conditions

This warranty only applies provided that the Product has been used in accordance with the manufacturer's recommendations under normal use and reasonable care (in the opinion of the Company) and such warranty does not cover consumable components, damage, malfunction or failure resulting from

misuse, neglect, abuse, or used for a purpose for which it was not designed, or is not suited and no repairs, alterations or modifications have been attempted by other than an Authorised Service Agent. This guarantee will not apply if the tool is damaged by accident or if repairs arise from normal wear and tear.

Accessories such as bits, blades, sanding discs, cutting lines, etc., are excluded from this guarantee. Normal consumable parts, such as carbon brushes, bearings, chucks, cord assembly's, spark plugs, recoil pulleys and bump head assembly's are specifically excluded from this guarantee.

The Company accepts no additional liability pursuant to this warranty for the costs of traveling or transportation of the Product or parts to and from the service dealer or agent - which costs are not included in the warranty.

Nothing herein shall have the effect of excluding, restricting or modifying any conditions, warranty, right or liability imposed, to the extent only that such exclusion, restriction or modification would render any term herein void.



STEVENS & CO (Pty) Ltd
604, 16th Street, Randjespark
Midrand, South Africa

P O Box 4059
HALFWAY HOUSE
1685, South Africa

Tel: +27 (11) 357-9600
Fax: +27 (11) 805-5541
email: stevens@ryobi.co.za

THIS WARRANTY FORM SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES.

For your record and to assist in establishing date of purchase (necessary for in-warranty service), please keep your purchase docket and this form, completed with the following particulars.

PURCHASED FROM:.....

ADDRESS OF DEALER:.....

DATE:..... MODEL NO..... SERIAL NO.....

Present this form with your Purchase Docket when Warranty Service is required.