**Important**

Read these instructions before assembly and use. Release pressure from the bottle before refilling or replacing parts. This is done by unscrewing the safety valve and holding until all air has been released. Then unscrew the container cap. Note: Some remaining air may be expelled. Ensure bottle has been rinsed with clean water before any servicing is done.

**Application**

This service kit is suitable for Hills Garden Sprayers 4L to 8L. Not suitable for use with this kit. It is for Hills Garden Sprayers.

**Contents**

305 Bucket Washer Pump Assembly 1
313 Pump Valve Pump Assembly 1
303 Bucket Support Washer Pump Assembly 1
311 Large O Ring Pump Assembly 1
276 Valve Cap Seal Valve Assembly 1
298 Valve Plunger Valve Assembly 1
327 Safety Valve Bottle 1
308 Small O Ring Lance 1
309 Sealing Ring Lance 3

**ID Description Where used Qty.**

**Pump Servicing**

To Remove
- Unscrew Pressure from bottle. Unscrew Container Cap 277 and withdraw Pump Assembly from bottle.
- Unscrew Pump Barrel 276 from Container Cap 277.
- Remove O Ring 311 from Pump Barrel 276.
- Remove Pump Valve 303 from bottom of the Pump Barrel.
- Remove Bucket Washer 305 and Bucket Support Washer 303 from bottom of Pump Handle 35.

To Replace
- Fit Pump Assembly into bottle and firmly screw Container Cap onto bottle neck.
- Refit the Bottom Handle 315 and fit the Valve Cap 327 into inside Valve Cap 327. Fit the Safety Valve 327 into Valve Body. Lubricate with Vaseline and fit Plunger Spring to it. Insert assembly into the Valve Body.
- Lubricate the new Valve Cap, Seat 279 with Vaseline and place inside the Valve Cap 328. Push firmly into place.
- Refit the Bottom Handle 265.
- Fit the Valve Cap 281 to the Valve Body and tighten firmly by hand. Note: Do not use hand tools to tighten.

**Safety Valve Replacement**

Note: Safety valve can not be serviced. It should be replaced with a new one.

To Remove
- Unscrew Valve Cap 281 and remove Valve Cap Seal 279 from inside Valve Cap.
- Grip the Plunger Assembly 298 and remove from the Valve Body.
- Keep Plunger Spring and discard the old Valve Cap Seal and Valve Plunger Assembly.
- Inspect the inside of the Valve Body and flush with water if necessary.

To Replace
- Lubricate new Valve Plunger 298 with Vaseline and fit Plunger Spring to it. Insert assembly into the Valve Body.
- Lubricate the new Valve Cap, Seat 279 with Vaseline and place inside the Valve Cap 328. Push firmly into place.
- Refit the Bottom Handle 265.
- Fit the Valve Cap 281 to the Valve Body and tighten firmly by hand. Note: Do not use hand tools to tighten.

**Nozzle Lance Only**

To Remove
- Unscrew the Large Handle Retaining Cap 332 and put Nozzle Lance out of Handle. Push Large Handle Retaining Cap 331 inwards and remove Sealing Ring 309.
- Unscrew the Small Nozzle Retaining Cap 332 and put Lance out of Nozzle.
- Push Small Nozzle Retaining Cap 332 inwards and remove O Ring 308.

To Replace
- Fit new Safety Valve 327 into Bottle and tighten securely.
- Note: Do not use hand tools to tighten.

**Test the Safety Valve**

- Fill the bottle completely with clean water and pressurise by pumping. When the sprayer is fully pressurised the valve should lift, allowing the red indicator to become visible and air to escape. If this does not happen, replace the safety valve.

**Nozzle Plunger Valve Servicing**

To Remove
- Release pressure from bottle. Unscrew Valve Cap 281 and remove Valve Cap Seal 279 from inside Valve Cap.
- Grip the Plunger Assembly 298 and remove from the Valve Body.
- Keep Plunger Spring and discard the old Valve Cap Seal and Valve Plunger Assembly.
- Inspect the inside of the Valve Body and flush with water if necessary.

To Replace
- Lubricate new Valve Plunger 298 with Vaseline and fit Plunger Spring to it. Insert assembly into the Valve Body.
- Lubricate the new Valve Cap, Seat 279 with Vaseline and place inside the Valve Cap 328. Push firmly into place.
- Refit the Bottom Handle 265.
- Fit the Valve Cap 281 to the Valve Body and tighten firmly by hand. Note: Do not use hand tools to tighten.

**Valve Body**

To Remove
- Unscrew Valve Cap 281 and remove Valve Cap Seal 279 from inside Valve Cap.
- Grip the Plunger Assembly 298 and remove from the Valve Body.
- Keep Plunger Spring and discard the old Valve Cap Seal and Valve Plunger Assembly.
- Inspect the inside of the Valve Body and flush with water if necessary.

To Replace
- Lubricate new Valve Plunger 298 with Vaseline and fit Plunger Spring to it. Insert assembly into the Valve Body.
- Lubricate the new Valve Cap, Seat 279 with Vaseline and place inside the Valve Cap 328. Push firmly into place.
- Refit the Bottom Handle 265.
- Fit the Valve Cap 281 to the Valve Body and tighten firmly by hand. Note: Do not use hand tools to tighten.

**Hills Contacts**

We are committed to providing you with complete customer satisfaction. If you have any questions or comments about our products or services please contact your nearest customer service centre during their local business hours:

**Australia**

1300 300 564
info@hills.com.au

**New Zealand**

09 262 3052
sales@hills.co.nz

**Rest of the World**

Refer to Hills Website

**Hills Websites**

www.hillshome.com.au
Hills Branded Products
Hills Holdings Limited
www.hillsheadings.com.au

Please retain this Product Manual. Record the following information for future reference:

**Product Number (printed on carton):**

**Contact:**

**Date of purchase:**

**Name and location of store:**

**Issue August 2013**

**PH1200d**
Nozzle Lance and Extension Lance

To Remove
• Unscrew the Large Retaining Cap 332 on the Extension Lance from the Lance Joiner and pull out of the Joiner.

• Unscrew the Large Retaining Cap 332 on the Nozzle Lance from the Lance Joiner and pull out of the Joiner.

• Push the Retaining Caps inwards and remove both Sealing Rings 309.

• Unscrew the Large Retaining Cap 332 on the Nozzle Lance from the Lance Joiner and pull out of the Joiner.

• Push the Retaining Caps inwards and remove both Sealing Rings 309.

• Push Small Nozzle Retaining Cap 321 and pull out of the Joiner.

• Note: Do not use hand tools to tighten.

Safety Instructions

Caution: Contents under pressure. Read this before operating.

• Release pressure before filling/servicing.

• Release pressure and clean after use.

• Wear safety goggles and gloves.

• Wear protective clothing and mask.

• Spray water soluble chemicals.

• Ensure adequate ventilation.

• Wash hands and face after use.

• Store away from sunlight.

• Tighten fittings only.

• Firmly insert of bottle before use.

• Maintain and service regularly.

• Read and understand manufacturer’s/safety directions.

Don’ts

• Spray flammable liquids or solvents.

• Leave full bottle unattended.

• Eat, drink or spray when working.

• Direct spray on humans or animals.

• Spray in windy conditions.

• Use in confined spaces.

• Leave within reach of children.

• Overtake the bottle.

• Over pressure.

• Stand sprayer near naked flames or hot surfaces.

• Tighten fittings with pliers etc.

• More children to use as a toy.

• Modify bottle or safety valve.

Hills Warranty

1. Hills provides consumers with the following warranty in relation to this Product, in addition to complying with the requirements of any relevant legislation, including the Australian Consumer Law and Consumer Act 2010 (Cth) in Australia and the Consumer Guarantees Act 1993 in New Zealand (the Acts), except where a New Zealand consumer acquires the relevant Product for the purposes of a business.

2. In this warranty, we have used the following definitions:

(a) Hills, our or we means Hills Holdings Limited (ABN 39 007 573 417) of 159 Port Road Hindmarsh South Australia 5007; or Hills (Holdings) Australia Limited (ABN 35 007 573 417) or its related bodies corporate.

(b) Products means the following goods manufactured for Hills by its contract manufacturers: Hills Service Kit for Garden Sprayers; Hills; Hills’ specific approval or are otherwise specified in this warranty.

(c) Warranty Period means 12 months from the date of purchase of the relevant Product.

(d) Repair or replacement means the following goods or services, as applicable, supplied at the discretion of Hills: Hills agrees to (at Hills’ option): i. in the case of goods – repair, replace or supply equivalent goods, or pay the cost of any of these remedies to the consumer; or ii. in the case of services – supply the services again or pay the cost of having the services supplied again.

3. Hills’ liability for any non-excludable condition or warranty in relation to this Product, in addition to complying with the requirements of any relevant legislation, including the Australian Consumer Law and Consumer Act 2010 (Cth) in Australia and the Consumer Guarantees Act 1993 in New Zealand (the Acts), except where a New Zealand consumer acquires the relevant Product for the purposes of a business.

4. Hills undertakes that if during the Warranty Period any Product, or any part of a Product, has failed to operate correctly due to faulty Workmanship or defective Materials, Hills will repair or replace the Product or part (as the case may be) free of charge provided that the following procedure is met:

(a) The consumer must contact Hills upon becoming aware of any defect to a Product. The contact details for Hills are set out in this warranty and under the heading “Hills Contacts”.

(b) Following consultation with Hills, Hills will determine whether or not there is a defect or repair that Hills agrees to fix (hills’ options): i. in the case of goods – repair, replace or supply equivalent goods, or pay the cost of any of these remedies to the consumer; or ii. in the case of services – supply the services again or pay the cost of having the services supplied again.

5. This warranty is in addition to any non-excludable condition or warranty in relation to this Product, in addition to complying with the requirements of any relevant legislation, including the Australian Consumer Law and Consumer Act 2010 (Cth) in Australia and the Consumer Guarantees Act 1993 in New Zealand (the Acts), except where a New Zealand consumer acquires the relevant Product for the purposes of a business.

6. Subject to the requirements of any applicable Act or legislation and to the extent permitted by law, no liability (whether expressed or implied) of any nature whatsoever, is accepted by Hills for any consequential loss, damage or injury arising as a result of any fault in the Products.

7. This warranty does not extend to damage to Products which occurs during transit or transportation, or which is caused by any abuse, accident or improper installation, connection, use, adjustment or repair or use of goods otherwise than in accordance with instructions in these directions.

8. The warranty on Products is voided if any addition or attachment to the Products do not have Hills’ specific approval or are otherwise specified in this warranty.

9. The following applies to consumers who purchase the relevant Product in Australia:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Act. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the goods does not amount to a major failure.