## Spare Parts List

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
<th>Qty Per Toilet</th>
<th>Part No.</th>
<th>Qty per Pack</th>
<th>Pack No.</th>
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<tbody>
<tr>
<td>1</td>
<td>Bowl Compact Toilet</td>
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<td>2</td>
<td>Seat Up &amp; Down Set Compact Toilet Regular Toilet</td>
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<td>Hinge Set 1-Pair Compact Toilet Regular Toilet</td>
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<td>5</td>
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<td>Epoxy Plugs &amp; O-Rings Assy.</td>
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<td>8</td>
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### Repair Kit Available

<table>
<thead>
<tr>
<th>Repair Kit</th>
<th>Description</th>
<th>Qty Per Toilet</th>
<th>Part No.</th>
<th>Qty per Pack</th>
<th>Pack No.</th>
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<tr>
<td>A</td>
<td>29042-0000</td>
<td>Service Kit (UP TO 1997)</td>
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<td>29057-0000</td>
<td>Repair Kit (BASE TO BOWL MOUNTING KIT)</td>
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</tbody>
</table>

## Twist 'n' Lock Manual Toilets

### Model: 29120-3000

- **Manual Toilet, Regular Bowl**

### Applications

You may install JABSCO Regular and Compact bowl manually operated marine toilets in both power and sailing craft, either above or below the waterline, for use on sea, river, lake or canal.

Your installation may discharge the waste either overboard (provided that your national and local regulations allow this), or into a treatment system or into an on-board holding tank (U.S.C.G. Marine Sanitation Devices Type I, II and III).

**JABSCO Manual Toilets** are designed specifically for marine use. Consult SST industries Jabco for advice about possible non-marine applications.

### Features

- Lift 'n' Lock action safety handle guards against flooding and waste backflow by locking the waste outlet valve shut.
- Automatic vacuum breaker operated by flush control lever for easier bowl emptying.
- Continuous handle and contoured handle, positioned flush control lever for ease of use.
- Angled pump housing and long stroke for easier pumping.
- Spring assisted pop valve closures for easier opening.
- Automatic vacuum breaker operated by flush control lever for easier bowl emptying.
- Constant 38mm (1 1/2") bore waste pipe minimizes blockages.
- Aerator jet valve combines full 38mm (1 1/2") bore with automatic back-flow prevention.
- Suitable for both manual and automatic control systems.
- Optional re-assembly by installer for left hand operation.

### Optional re-assembly by installer for left hand operation.

### Design

- Lift 'n' Lock action safety handle guards against flooding and waste backflow by locking the waste outlet valve shut.
- Reversible pump mounting allows re-assembly for left hand operation.
- Powerful self-priming, double-acting piston pump.
- Stripped as an efficient flushing pump.
- Cenosis free contours and skirted base for added cleanliness and hygiene.
- Contoured handle and consistently positioned flush control lever for ease of use.
- Angled pump housing and long stroke for easier pumping.
- Spring assisted pop valve closures for easier opening.
- Automatic vacuum breaker operated by flush control lever for easier bowl emptying.
- Constant 38mm (1 1/2") bore waste pipe minimizes blockages.
- Aerator jet valve combines full 38mm (1 1/2") bore with automatic back-flow prevention.
- Suitable for both manual and automatic control systems.
- Optional re-assembly by installer for left hand operation.

### Materials

- Luxury wooden seat and cover with tough baked enamel coating.
- Lightweight ceramic bowl for ease of cleaning.
- Pump and base moulded in ABS or polypropylene with selected parts in acetal resin, fitted with 316 stainless steel fastenings, brazi weights and neoprene seals and gaskets.

### Performance

- Flushing pump performance from dry up to 1 metre (39") below the base.
- Waste pump discharges up to 3 metres (9') above the base.

### Dimensions

- See the Dimensional Drawing on the back page.
Installation Instructions

YOUR TOILET is just one part of a system. Correct installation of the whole system is essential if you want the toilet to perform properly, operate reliably and safely, and give satisfactory length of life. The toilet is delivered assembled for right-hand operation. If you wish, both Regular and Compact Bowl models may be re-assembled with the pump on the left-hand side. The seat and lid is delivered boxed and unfitted for its protection.

NB: Key numbers, e.g. (Key 31), are references to the exploded view diagram on the back page.

1. Re-assembly for left hand use
   If you wish to change the pump mounting from right to left hand, do so before installing the toilet,
   - Pull off the hose (key 4) that runs from the pump to the bowl.
   - Remove the 4 screws (Key 31) that secure the pump assembly to the bowl.
   - Lift off the pump assembly and leave the base valve gasket (Key 14) in its 3 bracings.
   - Remove the 4 bolts (Key 11) that secure the bowl to the base.
   - Rotate the bowl 180° and re-secure it, using the nylon washers (Key 15) to protect the ceramic from the stainless steel washers and nuts (Key 12, 13).
   - Rotate the pump assembly 180° and re-secure it.
   - Rotate the push-off internals clockwise (Key 10) and re-fix the hose between the pump and the bowl.

2. Location
   - Select a location that will give sufficient clearance all round and above the toilet. Ensure that there is room to operate the pump and that there is access to the drain pipe at the end of the base.
   - The mounting surface must be flat, rigid and strong enough to support the weight of the toilet and to prevent vibration or movement of the toilet.
   - You will need sufficient clearance below the mounting surface to be able to secure the mounting bolts.
   - The seat and lid should be able to swing up and over at least 110°, so that they will not foul forward when the staff heads or pitchers, when they are swung up, they must be supported so that the hinges are not strained.

3. Mounting
   - You will need:
     - 4 x 6mm (1/4") diameter stainless steel bolts of length to suit the thickness of the mounting surface.
     - 4 stainless steel nuts, preferably self-locking. If you do not use self-locking nuts you will need some nutlocking compound.
     - 4 large stainless steel washers not more than 22mm (7/8") diameter.
     - A small tube of white silicone sealant.
     - Offer-up the toilet in the selected position and, using the bolts in the base as a guide, mark the positions for the 4 bolts on the mounting surface. Remove the toilet and drill 4 vertical holes of 8mm diameter through the mounting surface.
     - Apply a bead of white silicone sealant to the outer rim of the bottom base.
     - Bolt down the toilet and tighten the fastenings securely.
     - If you are not using self-locking nuts, use nutlocking compound.

4. Through Hull Fittings
   - You will need:
     - 1mm (7/64") bare hose for the flushing water inlet, and if you are discharging the waste overboard, a 38mm (1 1/2") bare hose for the waste outlet.
     - Follow the manufacturer’s own instructions concerning materials and methods of installation.
     - Ensure the inlet hose is positioned where it will be below the waterline at all times when the craft is underway and also ensures that any outlet hoses are both of the right length and are fixed securely at all points.

   HAZARD RISK:
   - Through Hull Fitting
     - If the installation of the toilet results in it being connected to ANY through-hull fitting that may possibly be below the waterline at ANY time, whether the craft is at rest, underway or rolling or pitching, you must install the toilet in accordance with these installation instructions. If you do not, water may flood in, causing the craft to sink, which may result in loss of life.

   FOLLOW THESE INSTRUCTIONS:
   - HAZARD RISK:
     - Accidental Damage
       - If the toilet is connected to ANY through-hull fittings and if the toilet or pipework is miscrept, water may flood into the craft, which may result in loss of life.
       - Therefore, if you are making connections between the toilet and ANY through-hull fittings that may possibly be below the waterline at ANY time, all through-hull hoses must be fitted to these through-hull fittings, to allow them to be shut off.
       - The system MUST be also arranged to be accessible to all members of the crew, so that in the event of an emergency, the system could be used to shut off the water intake of the toilet.
       - If you are making connections between the toilet and ANY through-hull fittings that may possibly be below the waterline at ANY time, all through-hull hoses must be fitted to these through-hull fittings, to allow them to be shut off.

   USE SEACOCKS:
   - CAUTION: Use lever operated, full bore marine seacocks and valvets. The use of screw-down gate valves is not recommended.

5. Pipework - selection of correct method
   - You MUST select the correct method for the inlet pipework from 2 options and for the outlet pipework from 4 options, according to whether the toilet is above or below the waterline, and to whether it discharges the waste overboard or into an inboard holding tank.

   HAZARD RISK:
   - Pipework Becomes Loose
     - If the toilet is connected to ANY through-hull fittings and if the pipework becomes disconnected, either from a through-hull fitting or seacock, or from the toilet or any secondary valves, water may flood in and may cause the craft to sink, which may result in loss of life.

   All dimensions in millimetres with inch equivalents in brackets.
Servicing Instructions

1. Servicing & Winterisation - preparation
Jasco manual toilets are designed to be user serviceable and no special tools or skills are required. Flushing the toilet in accordance with the OPERATING INSTRUCTIONS for NORMAL USE will prepare the toilet for winterisation, provided that all works have left the discharge piping system and that the bowl is empty.

2. Servicing - Seal replacement
If water leaks from around the piston rod (key 28) at the top of the pump, the seal assembly (key 18) is worn and must be replaced.

3. Servicing - Disassembly

ATTACH WARNING NOTICE!

If you are not disassembling the toilet:

- Reassemble at (E) and secure them with their hose clips, if you do not, the joint may not seal.
- Connect the drain pipe and secure them with their hose clips, if you do not, the joint may not seal.
- Reconnect the valve and the cylinder using the discharge flanges, and remove any foreign material or debris from the discharge hose, if you do not, the joint may not seal.
- Secure basin in the basin holder that has been adjusted to fit the basin.
- Position the basin in the basin holder that has been adjusted to fit the basin.
- Replace basin in the basin holder that has been adjusted to fit the basin.

4. Servicing - Overhaul

YOU WILL NEED:
- A Service Kit, part number 29045-2000, which contains all necessary parts
- A service manual for specific instructions

5. Pipework - General instructions for all options
YOU WILL NEED:
- A flush valve, isolating valve, and main isolating valve
- A pressure reducing valve
- A check valve

CAUTION: Do not position the vented anti-overflow loop between the inlet and flushing pump inlet, as it will make the flushing pump difficult to prime, harder to pump and may prevent it from working at all.

Hazard Risk:

Bead Rim Below Waterline

If the rim of the bowl is below the waterline, water may flow into the bowl and fill the overflow siphon, which may result in a leak. Therefore, if the rim of the bowl is less than 25mm (1”) above the waterline when the flush is at rest, it is advisable to adjust the overflow siphon to make the rim of the bowl be below the waterline at ANY time. A vented anti-overflow loop must be fitted in any pipework connected to a-throughflow fitted assembly of either inlet or outlet, as vented loops.

SPECIAL NOTE 1: The smaller bore inlet pipework is more susceptible to damage than the larger outlet pipework, unless the pipe is fitted with an anti-overflow loop in the inlet pipework, water will flow into the bowl and fill the overflow siphon, which may result in a leak. Always mount the flush valve (key 25) in the “Stop” position to restrict the water flow, this cannot be removed from the siphon loop.

SPECIAL NOTE 2: Making a leak in the bowl without fitting a vent may allow air to enter at up to 250mm (10”) above the waterline may result in a leak. It is the vent that actually prevents the overflow.
5.3 Outlet Pipework • 4 options

Option 1: Toilet below the waterline and discharging overboard.

You must fit a 38mm (1½”) Vented Loop fitting, Jabsco part number 29015-0461.

- Arrange the outlet hose to form a loop which is at least 20cm (8”) above the highest possible waterline, and fit the vented loop at the highest point.

Option 2: Toilet above the waterline, and discharging overboard.

You may fit a 38mm (1½”) Vented Loop fitting, Jabsco part number 29015-0461.

- Run the outlet hose from the discharge elbow to form a loop at least 30cm (12”) higher than the discharge elbow.
- If you fit a vented loop at the top of the hose loop this will ensure that you can keep some water in the base of the toilet without risk of it being siphoned away.

Option 3: Toilet waste discharging into holding tank, top of holding tank above discharge elbow at anytime.

You must fit a 38mm (1½”) Vented Loop fitting, Jabsco part number 29015-0461.

- If there is ANY possibility that the discharge elbow may be below the top of the tank at ANY time, a ventilated air-gap loop must be fitted in the outlet pipes to ensure that the contents of the tank do not siphon out through the bowl.
- Arrange the outlet hose to form a loop which is at least 20cm (8”) above the highest possible level that the tank may reach, and fit the Vented Loop at that highest point.

Option 4: Toilet waste discharging into holding tank, discharge elbow always above top of holding tank.

You may fit a 38mm (1½”) Vented Loop fitting, Jabsco part number 29015-0461.

- Run the outlet hose up from the discharge elbow to form a loop at least 30cm (12”) higher than the discharge elbow.
- This will create a water seal at the Inlet Valve that will prevent bad odours from escaping through the toilet.

6. Testing
Refer to the Operating Instructions and follow the procedure "2 Normal use".

7. Safety
Ensure that this INSTRUCTION MANUAL reaches the owner, skipper or operator of the craft as it contains essential safety information.

On completion of installation:
- Shut the flush control.
- Close both seacocks.

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Operating Instructions

The toilet is one of the most used pieces of equipment on your boat. Correct operation of the toilet is essential for the safety and comfort of your crew and craft.

1. First use
After periods without use the toilet may benefit from lubrication:
- Open inlet and outlet seacocks (and secondary valves if fitted).
- Half fill the bowl with warm fresh water.
- Keeping the Flush Control Lever (key 23) in the shut position, pump out the warm water.

2. Normal use
Open inlet and outlet seacocks (and secondary valves if fitted).
- Before use, ensure that there is enough water in the bowl to prevent the toilet paper becoming compacted at the bottom of the bowl.
- If the bowl is empty, move the Flush Control Lever (key 23) to the Open ( ) position and pump the handle (key 15) up and down until the flushing pump is primed and water enters the bowl.
- Then shut ( ) the Flush Control.
- Operate the pump with long, smooth strokes for efficient and easy operation.
- During use, pump as necessary to keep the contents of the bowl low enough for comfort.
- Use good quality hard or soft household toilet paper, but do not use more than necessary.
- After use, keep the Flush Control Shut ( ) and pump until the bowl empties.
- When the bowl is empty, open ( ) the Flush Control again, and continue to pump until the waste has either left the bowl, or reached the holding tank (after 7 complete up-down strokes per metre head length of discharge pipes).
- Then shut ( ) the Flush Control and pump until the bowl is empty. Always leave the bowl empty to minimise odour and spillage.

After use:
- Shut ( ) the flush control.
- Shut both seacocks.

Hazard: Accidental Damage
If the toilet is connected to ANY through-hull fittings that are below the waterline at any time, and if the outlet or piping is damaged, water may flood in, causing the craft to sink, which may result in loss of life.

Therefore, after every usage, both seacocks (or secondary valves) MUST be shut.

Never leave a toilet unattended, even if only for a very short period of time, both seacocks (even if secondary seacocks are fitted) MUST be shut.
- Ensure that ALL, users understand how to operate the toilet system correctly and safely, including main and secondary valves.
- Take special care to instruct children, the elderly and visitors.

Shut Seacocks!

Note: Do not put anything in the toilet that you have water in it, except toilet paper. Do not put in sanitary waste, food waste, batteries, matches, cleaning agents or any solid objects, petrol, diesel, D1 liquids or any kind of water or water more than hand hot.

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3. Cleaning

CAUTION: Do NOT use aggressive chemical agents such as Acetone or Bleach because plastic parts may crack and the enamel coating on the seat lid may blister.
- To clean the bowl, use any liquid or cream ceramic cleaner.
- To clean the rest of the toilet, including the seat and lid, use a non-abrasive liquid cleaner. Polish with a dry cloth only.

CAUTION: Do not use abrasive pads on any part of the toilet and do not use cream cleaners except for the bowl.
- To disinfect the toilet, use a liquid disinfectant diluted in accordance with the manufacturer’s instructions. You may apply it to all parts of the toilet using a sponge or soft brush as necessary.

CAUTION: Do not use thick liquid toilet cleaners or mouth wash. These may damage the valve glands, gaskets, seals and the enamel coating of the seat and lid.