PHII AND PHEII MARINE TOILETS

INSTALLATION AND MAINTENANCE INSTRUCTIONS

THE FOLLOWING ARE CAUTIONARY STATEMENTS THAT MUST BE READ AND

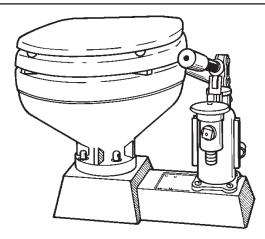
FOLLOWED DURING BOTH INSTALLATION AND OPERATION

WARNING: Raritan Engineering Company, Inc. recommends that a qualified person or electrician in the case of PHEII, install this product. Equipment damage, injury to personnel or death could result from improper installation. Raritan Engineering Company, Inc. accepts no responsibility or liability for damage to equipment, or injury or death to personnel, that may result from improper installation or operation of this product.

WARNING: Hazard of Flooding - Any installation made below the waterline must have vented loops positioned properly and all hose connections should be double-clamped. Both intake and discharge seacocks should always be in the closed position when the toilet is not in use. Failure to do so may result in flooding, property damage and loss of life.

WARNING: Do not operate PHEII series toilets with handle in place, serious bodily injury may occur.

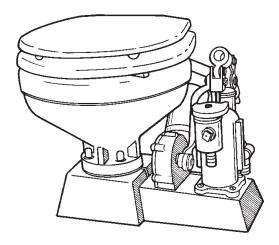




The PHII is a manually operated double action piston toilet. The PHII can be converted to its electrical counterpart by adding an electrical conversion kit part# PHECKII*.

*Specify Voltage

Model and Serial Number:



The PHEII is the electric version which incorporates an electric motor driven gear box.

All models are suitable for use in conjunction with Raritan's Electroscan® and Purasan® both are U.S. Coast Guard Certified Type I flow-thru Marine Sanitation Device (MSD) and/or holding tanks.





1-856-825-4900 www.raritaneng.com

OPERATION

WARNING: DO NOT adjust valve handle (1209BW) while toilet is operating.

- 1. With valve handle in the "FLUSH" position pumping the handle (or pressing the button on electric units) will draw water in and discharge the bowl contents.
- 2. With valve handle in the "DRY" position pumping the handle (or pressing the button) will only discharge the bowl contents while drawing air in through the air valve assembly to prevent a build-up of pressure.
- We recommend single ply toilet paper.
- Water should appear in the bowl within ten seconds. If not, see troubleshooting section.
- Hard objects or stringy substances (paper towels, feminine hygiene products, filter cigarettes, etc.) must not be thrown into the toilet as they will cause damage.
- Always shut off seacock(s) before leaving the boat unattended.

RETURNING PHEII TO MANUAL OPERATION

WARNING: Secure circuit breaker in "OFF" position before proceeding.

- 1. Remove arm bolt and nut (#1115 and #1115A) from the top of the connecting rod (#1116BW).
- 2. Displace connecting rod (#1116BW) from track.
- 3. Insert the handle (#1208W) and cotter pin (#1210A). To return to electrical operation, reverse procedure.

Cleaning Instructions

IMPORTANT: Do not use cleaners that contain ammonia, ethyl acetate, phosphoric acid or concentrated chlorine bleach. These may cause damage to the toilet.

Using C.P. a bio-enzymatic toilet bowl cleaner (available from Raritan Engineering) will keep the bowl clean and fresh smelling.

Recommend Visual Inspection

- ✓ For leaks at toilet and hose connections
- ✓ Hose clamps
- ✓ Condition of hoses
- ✓ Seacocks
- ✓ Condition of wires and connections
- ✓ In-Line Strainer (if you have one)

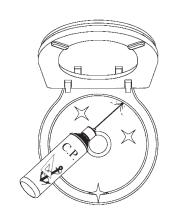
Valve handle must be *fully* in the "FLUSH" or "DRY" position only.



Position for intake of water and 'discharge of bowl contents



Position for discharge of bowl contents only (no water coming in)



MAINTENANCE

Super Lube® (#SL1CC) applied to the piston rod will prolong the life of the Piston Shaft Seal. This should be done every spring and fall or more regularly if the head is used frequently. Applying Super Lube to all moving parts is also recommended.

Installtion of a Knocks Out Odor Kit (#KO2) will reduce the "rotten egg" smell associated with using salt or brackish water to flush the toilet.

Before attempting repairs, refer to the Troubleshooting section of this manual.

WINTERIZING

Improper winter lay up is a major cause of marine toilet failures.

Parts Required

- 3/4" I.D. intake hose approximately 3 feet long.
- 1 1/2" I.D. discharge hose approximately 3 feet long.
- · Two buckets
- Nontoxic antifreeze approximately 1 quart
- 1. Close the intake and discharge seacock. Disconnect and drain the intake and discharge hoses.
- 2. Connect short hoses to toilet's intake and discharge.
- 3. Place one bucket under short hose on discharge.
- 4. Pour nontoxic antifreeze in other bucket.
- 5. Place hose connected to intake into bucket with antifreeze.
- 6. Flush toilet until antifreeze begins to be discharged from toilet.
- 7. Antifreeze should remain in the toilet until recommissioning. This will protect both intake and discharge sides of the pump. Pouring antifreeze into the bowl will only protect the discharge.

NOTE: Holding tanks, seacocks and treatment systems need to be independently winterized, stored and recommissioned (see manufacturer's instructions).

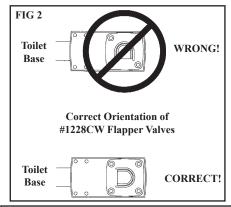
RECOMMISSIONING

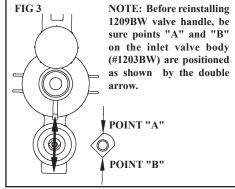
- 1. Lubricate piston rod with Super Lube[®].
- 2. Using the buckets, hoses and a gallon (3.8 liters) of clean water, flush the antifreeze out of the toilet. Dispose of antifreeze properly, in accordance with local and federal regulations.
- 3. Reconnect the hoses and open both seacocks.
- 4. Check all connections for leaks with several test flushes.

INSTALLATION OF REPLACEMENT PARTS

- 1. Refer to Fig. #2 when replacing part #1228CW.
- 2. If valve body (#1203BW) is removed it must be positioned as in Fig. #3 for proper operation.

Overhaul kits and individual parts for your toilet may be ordered through your dealer or direct from the factory.





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Tools Required

- 5/16" nut driver
- Wrench or screw driver
- Bit for drilling mounting surface
- Hose cutters
- Tape measure

Additional Parts Required

- Four stainless steel mounting bolts or lag screws (minimum 1/4" [6mm]) and washers
- 1 1/2" I.D. discharge hose
- 3/4" I.D. reinforced intake hose
- Hose clamps (two for each connection below waterline)

PHEII Units Require

- Wire
- Wire cutters
- Wire terminal crimpers
- Terminals
- Fuse/circuit breaker

SPECIFICATIONS

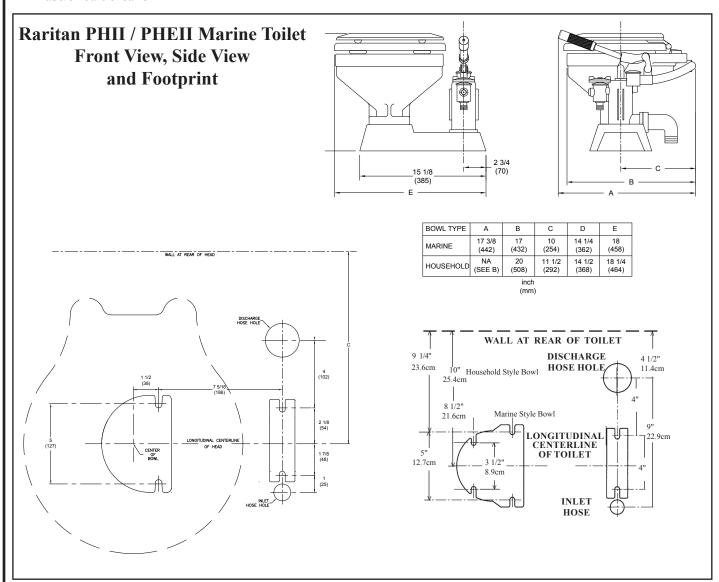
Electrical

Nominal Voltage (Volts DC)	12V	24V	32V
Amperage Draw @ Nominal Voltage	18	11	8
Circuit Breaker/Fuse Size (Amps)	25	20	12

Wire Sizes

NOTE: Recommended conductor sizes based on 105C rated insulation. Refer to ABYC Standards for other insulation ratings.

	Distanc	e from s	ource to	unit an	d back to	source [feet (m)]
	10' (3.1)	15' (4.6)	20' (6.1)	25' (7.2)	30' (9.2)	40' (12.2)	50' (15.2)
UNIT'S	Minin					e AWG ((mm²)
VOLTAGE		f	or 3% v	oltage d	rop		
12	10 (6.0)	10 (6.0)	8 (10.0)	6 (16.0)	6 (16.0)	6 (16.0)	4 (25.0)
24	16 (1.5)	14 (2.5)	12 (4.0)	12 (4.0)	10 (6.0)	10 (6.0)	8 (10.0)
32	16 (1.5)	16 (1.5)	16 (1.5)	14 (2.5)	14 (2.5)	12 (4.0)	12 (4.0)



MOUNTING TOILET

Mounting surface must be flat and solid.

- 1. Install seat on toilet.
- 2. Place toilet where it will be located.

Make sure there is room to route hoses.

Make sure seat will open properly.

- 3. Mark location of toilet base mounting holes on mounting surface.
- 4. Drill holes for toilet mounting bolts/screws.
- 5. Secure toilet to surface.

NOTE: Never mount PHEII where it may be subject to shower spray or other sources of external water.

PLUMBING

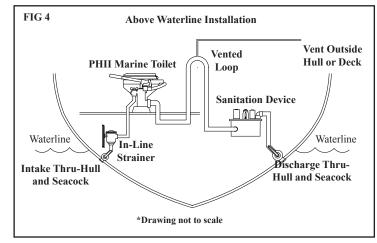
WARNING: HAZARD OF FLOODING

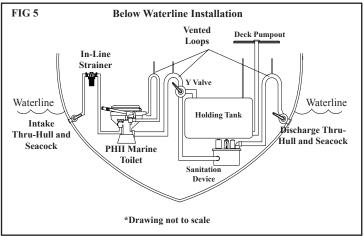
Toilets mounted at or below the waterline, at greatest angle of heel, and connected to a Seacock/ Thru Hull Fitting(s) MUST have VENTED LOOPS installed in toilet discharge plumbing and between raw water intake pump and toilet bowl.

Install vented loops per manufacturer's instructions. Double clamp all below-waterline connections.

IMPORTANT

- Fittings and 90° bends should be kept to a minimum.
- In-Line Strainer may be installed on Sea Water Models per Installation Instructions. This will prevent clogs.
- Discharging untreated sewage is forbidden in all U. S. waters within the three-mile limit.
- Thru-hull fittings and seacocks must be installed where they are easily accessible.
- Use only quality reinforced hoses such as Raritan Saniflex (SFH)
- Secure all hoses properly.
- Route discharge hose above discharge outlet with a vented loop. This will enable the toilet to discharge more efficiently and will help to prevent backflow.
- 2. An In-Line Strainer (#163000) is recommended. This will help minimize odors and help prevent clogging.
- 3. Intake and discharge thru-hull fittings should be located far enough apart to prevent discharge water from being drawn through the intake.
- 4. The optional Raritan Knocks Out Odors Kit (#KO2) permits use of Cleans Potties (#1PCP22) with the PHII and PHEII toilets. Raritan Cleans Potties deodorizes the bowl and lubricates internal parts.
- 5. Flush and check for leaks.





ELECTRIC CONVERSION KIT INSTALLATION (PHECKII) - For PHII Models Only

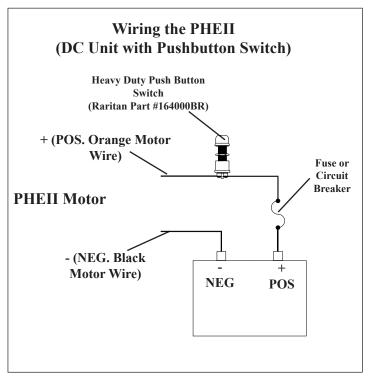
NOTE: It is recommended that the toilet be removed before installing the PHECKII.

- 1. Close the seacocks.
- 2. Remove cotter pin (#1210A) and handle (#1208W) from toilet. Disconnect hoses and unbolt toilet from deck.
- 3. Align connecting rod in track on side of pump housing and place motor-gearbox unit in position on base (#1248W) between pump and bowl.
- 4. Insert four hex head screws (#1119A) with lock washers (#1118). Tighten evenly.
- 5. Insert bolt (#1115) through connecting rod (#1116BW) and thread into yoke (#1211PL). Tighten jam nut (#1115A) securely; this connection is not a pivot point.

WIRING

WARNING: Hazard of Shock and Fire

- Always use proper wire, wire connectors and fuse/circuit breaker. See Specification Chart.
- Secure wire properly.
- Do not connect appliances to toilet circuit.
- Make sure power is off before proceeding.
- Use proper wire terminals for all wire connections.
- 1. Determine proper wire size by measuring distance from:
 - Power Source to push-button to toilet motor and back to power source.
- 2. Select proper wire and fuse/circuit breaker size from Specifications on Installation page.
- 3. Install fuse/circuit breaker in positive line at source.
- 4. Connect positive wire from fuse/circuit breaker to Push Button Switch.
- 5. Connect wire from Push Button Switch to orange wire on motor(s).
- 6. Connect wire from battery negative or power source ground buss to black wire (negative) on motor(s).



Water not being drawn in

• Check Ball Stuck

Shutoff seacock and remove intake hose Using an eraser end of pencil be sure check ball is moving freely

• Debris lodged in intake valve body

Check and clean valve body

• Piston O-ring worn

Replace Piston O-ring

• Inlet valve in wrong position

Inlet valve should only rotate 1/4 turn

Leak around piston shaft

• Cartridge seal worn

Replace cartridge seal Inspect and replace piston shaft if scored

Odor comes from head area when flushed

• Marine vegetation lodged in bowl

Remove bowl and attach pressure water at spud assy. Install strainer in intake line

• Intake water is foul (most common in salt and brackish)

Install Knocks Out Odors Kit (KO2) to help deodorize intake water

• Back pressure from holding tank

Tank full or vent clogged, inspect and clean

• Permeated discharge hose

rub with warm damp rag if smell transfers to rag replace hose

Water accumulates in the bowl too fast

• Flapper valve not seated properly

Close intake valve and pump dry - clean or repalce flapper valve as necessary

• Joker valve not closing or opening properly

Close intake valve and pump dry - clean or replace joker valve as necessary

Not enough water to rinse bowl

• Intake valve positioned improperly

Be sure inlet knob only turns 1/4 see fig. #3

• Debris around intake or discharge check balls

Remove check balls, clean and replace as necessary

• Scored pump housing or worn piston "O" ring

Inspect inside of housing replace "O" ring and housing as necessary

• Intake line or strainer clogged

Clean line and strainer

Water rises in bowl

• Vented loop(s) not breaking siphon

Close discharge seacock, then intake seacock to determine which is causing the problem. Clean or replace vented loop(s) parts.

Joker valve worn

Inspect, clean or replace as needed

Electric motor labors or manually hard to pump

• Low voltage at motor while running

Check condition of batteries, terminals and wire connections for corrosion. Check gauge of wire to be sure it is not undersized.

• Holding tank vent clogged or tank full

Clean holding tank vent or empty tank

• Discharge line obstructed

Test by putting a short piece of hose on discharge fitting and pump into bucket if OK then - Check thru-hull fitting and hose for clog

• MSD Clogged

Test as above if OK - then see the MSD instruction manual

• Discharge seacock closed

Open discharge seacock

Units requiring extensive repairs may be returned to the Millville, NJ or Fort Lauderdale, FL office for overhaul. Instructions, including name, address and phone number MUST accompany returned units to ensure proper handling.

See additional FAQ's at: www.raritaneng.com/tech-support/faq

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PARTS FOR RARITAN PHII AND PHEII MARINE TOILET

	MARINE TOILET	D 4 M
Part No.	<u>Description</u>	Part No.
1115	3/8"-16 x 1 1/2" Hex Head S/S Bolt(2)	1106W
1124	1/4"- 20 x 1/2" R.H. Machine Screw	1108A
1200CW	Pump Housing	1109*
1201	Intake and Discharge Valve Ball (2)	1110
1202	Intake and Discharge Valve Gasket (2)	1112
1203BW	Intake Valve Body w/"O" Rings,	1113
l .	(Includes 1203B, 1203B1, 1203B2, 1203B3)	1115 1115A
1203W	Air Valve Assembly	
1204B	Intake Valve Cap	1116BW
1208W	Retractable Handle	11170
1209BW	Valve Handle	1117B
1210	Handle Socket	1118
1210A	Cotter Pin	1119/1119A
1210B	Cotter Pin (3)	1120W
1211PL	Piston Rod Yoke	1122
1212W	Piston Rod Assembly w/"O" Ring (1232MS)	1123
1213W	Piston Rod Seal Assembly, Pre-6/92,	1124
	(Includes 1213A, B, C, D)	M23A
1213A	"U" Cup Seal (Pre-6/92)	PHC PARTS
1213B	Delrin Washer (Pre-6/92)	Part No.
1213C	Snap Ring (Pre-6/92)	1226A
1213D	White Neoprene Washer (Pre-6/92)	1226C
1214W	Piston Shaft Seal Cartridge Assy (1214,	1301PW
	1214A, 1214B) Fits pumps mfg. after 6/92	F081
1216	Clevis Pin (3)	RARITAN I
1217	Discharge Valve Cap	Part No.
1218	Fulcrum Link (2)	163000
1222AW	90° Discharge w/Flange (Std.)	164000BR
1222B	Straight Discharge (Opt.)	1PCP22
1223B	Flange Nut 3/8"-16 S/S (2)	CHTII
F098	Housing Screw 1/4"-20 x 1" S/S (4)	SFH
1226B	Nut, 1/4"-20 S/S (8)	SL1CC
1228CW	Flapper Valve Assembly (1/2" Holes)	KO2
1232MS	Piston "O" Ring Bowl Gasket	TD90319
1234 1236E		TD90323
	Bowl Elbow	TD90314W
1238SC 1245SC	Marine Style Seat and Cover - Slow Close	DOWL 6 CI
12438C 1246W	Household Style Seat and Cover - Slow Close	BOWL & SI
1246W 1248W	Base Cover (2 pcs.) Base w/Plug	Part No.
1248 W 1249	Base Plug	1236AW
1249 1250W	Base and Cover Assy.(1246W and 1248W)	1237W
C253	Joker Valve	1244W 1238SC
C233 CH42	Hose (¾" I.D.)	1238SC 1245SC
CH42 CH43P	Hose Clamp (2)	VCAP
F005	1/4"- 20 x 5/16" S/S Socket Set Screw	
F081	Bowl Bolt 1/4"-20 x 2 S/S Hex head	OVERHAU
LWS	Intake and Discharge Valve Spring (2)	Part No.
RNI	Nylon Shoulder Washer	PHRKII
	•	PHRKIIC
	ELECTRIC DRIVE	PHIIPUMP
Part No.	Part Name	*Specify Walt

<u>rartivo.</u>	1 art ranne
1100W	Gear Box Housing Assembly
1102	Worm
1104 1105	Ball Bearing
1105	Snap Ring
1106AS	Rubber Connection w/Sleeve

Part No.	<u>Description</u>
1106W	Coupling w/Sleeve, complete
1108A	Motor Mounting Nut (2)
1109*	Motor (12, 24, 32, 120V DC)
1110	"O" Ring
1112	Link
1113	Link Pin, Worm Gear Pin
1115	3/8" - 16 x 1 1/2" Hex Head S/S Bolt
1115A	3/8" - 16 Hex Jam Nut S/S
1116BW	Connecting Rod Assy. (1116B, 1114B,
	1114D)
1117B	Crank Bolt
1118	Lock Washer (4)
1119/1119A	Hex Head Screw (4)
1120W	Worm Gear Assy.(1111, 1113, 1120)
1122	"O" Ring
1123	Gear Box Cover
1124	1/4"- 20 x 1/2" R.H. Machine Screw(4)
M23A	#10 Lockwasher S/S (2)

PARTS

<u>Description</u>
Housing Screw 1/4"-20 x 1 1/4" S/S (4)
Plastic Spacer Washer (4)
Toilet Base Assembly (1301P, 1343)
Bowl Bolt 1/4"- 20 x 2" S/S Hex head

TAN INSTALLATION ACCESSORIES **Description**

"Y" Valve

Description

In-Line Strainer
Push button switch
C.P., Cleans Potties, Bio-enzymatic, 22 oz.
Compact holding tank - 5 gallon
Sani-Flex Hose
Super Lube 1cc tube
Knocks Out Odor Kit
Vented Loop 3/4"
Vented Loop 1 1/2"

L & SEAT

	*
1236AW	Spud assy.
1237W	Marine-size Bowl assy.
1244W	White Household-style Bowl assy.
1238SC	Marine-size seat & cover; Slow Close
1245SC	Household-style seat & cover; Slow Close
VCAP	Vinyl Cap

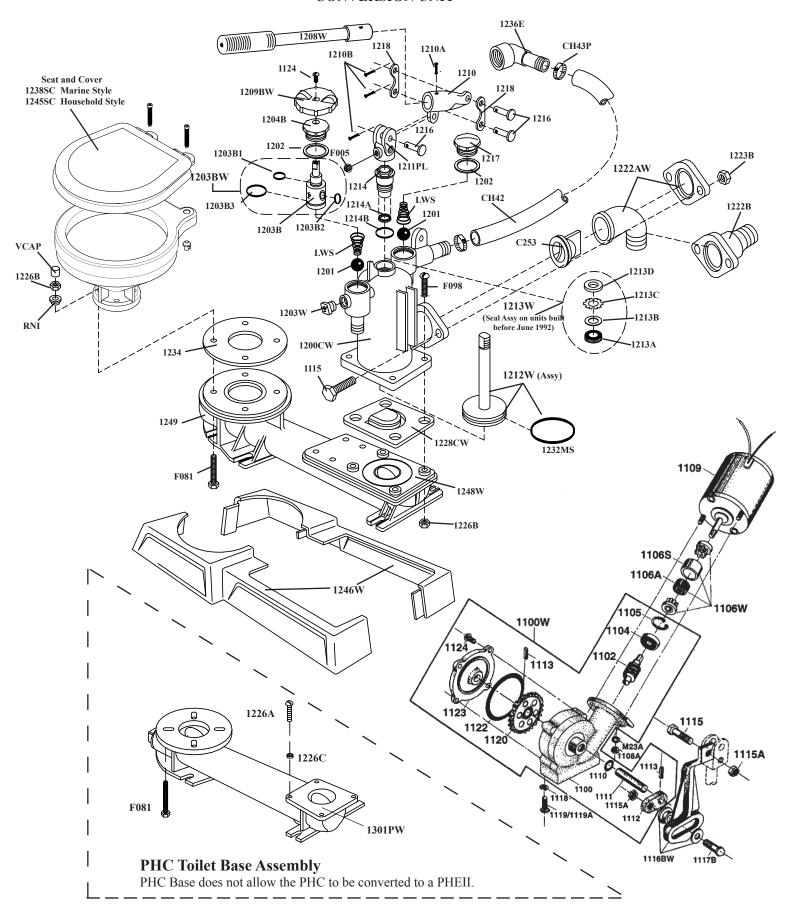
RHAUL KITS

Part No.	<u>Description</u>
PHRKII	PHII&PHEII-U-cup Seal (mfg.before 6/92)
PHRKIIC	PHII&PHEII-Cartridge Seal (mfg.after 6/92)
PHIIPUMP	PHII Pump replacement assembly

*Specify Voltage

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EXPLODED PARTS VIEWS, PHII MARINE TOILET AND PHECKII ELECTRIC CONVERSION UNIT



PHII Housing Identification & Replacement

Note: 1200CW style pump housings use repair kit part# PHRKIIC. Units manufactured prior to June 1992 (1200W housing) use repair kit part# PHRKII.

The Pump assembly 1200CW is a direct replacement for the 1200BW older PHII Pump housing. The 1200CW utilizes a replaceable seal cartridge assembly which if worn is easily replaceable.

The Former 1200W housing when worn at the seal bushing area required a whole housing replacement. Units manufactured prior to June 1992 utilize the 1200BW housing.

The PHRKII (Pre-1992) Repair Kit Includes:

1201: 3/4 Valve Ball (2) 1202: Valve Cap Gasket

1203BW: Intake Valve Body w/"O" Rings (includes: 1203B, 1203B1, 1203B2, 1203B3)

1213W: Piston Rod Seal Assy

(includes: 1213A, 1213B, 1213C, 1213D)

1226C: Plastic Spacer Washer (4) 1228CW: Flapper Valve Sub-Assy. 1232MS: Piston Multiseal O-Ring

1234: Bowl Gasket White

C253: Joker Valve

RNI: Nylon Shoulder Washer (4) SL1CC: Super Lube: 1cc Packet (3)



The PHRKIIC (Post 1992) Repair Kit Includes:

1201: ¾ Valve Ball (2) 1202: Valve Cap Gasket (2)

1203BW: Intake Valve Body w/"O" Rings (includes: 1203B, 1203B1, 1203B2, 1203B3) 1214W: Piston Shaft Seal Cartridge Assembly

(includes: 1214, 1214A, 1214B) 1226C: Plastic Spacer Washer (4) 1228CW: Flapper Valve Assembly 1232MS: Piston Multi-Seal O-Ring

1234: Bowl Gasket (White)

C253: Joker Valve

RNI: Nylon Shoulder Washer (4) SL1CC: Super Lube: 1cc Packet (3)



Inlet Valve/ Handle Orientation and Repair

Tools you will need:

Channel type pliers. Flatblade (med) screwdriver

Gaining access to the inlet valve

To clean out debris or dismantle the valve it is necessary to access the inlet valve spring (part# LWS) and ball (#1201).

It is only necessary to unscrew the inlet valve cap (part #1204B) approximately 5 revolutions with channel type pliers. *Note: It is not necessary to remove or loosen any other part.*

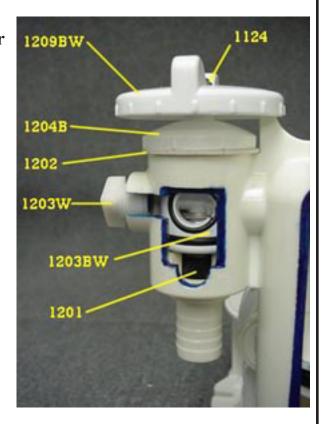
Then by grasping the 1209BW handle and gently lifting upwards, the entire assembly (down to part #1203BW) can be removed.

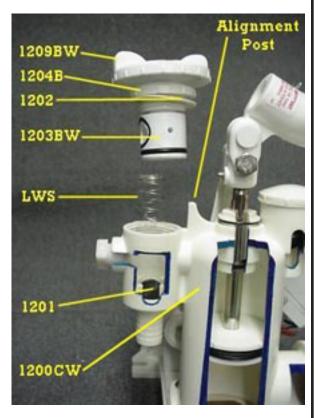
Clean out any debris in this area.

Replace gasket (part#1202) if necessary and apply a small amount of Super Lube (#SL1CC) to the O-ring area of the 1203BW.

Reassemble in the reverse order making sure that the alignment post of the 1200CW housing protrudes **between** the two limiting stops in the underside of the 1209BW. This allows for the proper position of the inlet valve. If installed properly this creates a maximum of a 1/4 turn from "Dry" to "Flush" **not** 3/4 turn.

Note: Do not overtighten #1204B as gasket #1202 will displace





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LIMITED WARRANTY

Raritan Engineering Company warrants to the original purchaser that this product is free of defects in materials or workmanship for a period of one year from the product's date of purchase. Should this product prove defective by reason of improper workmanship and/or materials within the warranty period, Raritan shall, at its sole option, repair or replace the product.

- 1. TO OBTAIN WARRANTY SERVICE, Consumer must deliver the product prepaid, together with a detailed description of the problem, to Raritan at 530 Orange St., Millville, N.J. 08332, or 3101 SW 2nd Ave. Ft. Lauderdale, FL 33315. When requesting warranty service, purchaser must present a sales slip or other document which establishes proof of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION PRECEDENT OF WARRANTY COVERAGE. However, please complete and return the owner Registration Card so that Raritan can contact you should a question of safety arise which could affect you.
- 2. THIS WARRANTY DOES NOT COVER defects caused by modifications, alterations, repairs or service of this product by anyone other than Raritan; defects in materials or workmanship supplied by others in the process of installation of this product; defects caused by installation of this product other than in accordance with the manufacturer's recommended installation instructions or standard industry procedures; physical abuse to, or misuse of, this product. This warranty also does not cover damages to equipment caused by fire, flood, external water, excessive corrosion or Act of God.
- 3. ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY FOR BREACH OF CONTRACT WHICH BUT FOR THIS PROVISION MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. ALL IMPLIED WARRANTIES SUCH AS THOSE OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, IF APPLICABLE, AS WELL AS ANY IMPLIED WARRANTIES WHICH MIGHT ARISE BY IMPLICATION OF LAW, ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG A LIMITED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
- 4. UNDER NO CIRCUMSTANCES SHALL RARITAN BE LIABLE TO PURCHASER OR ANY OTHER PERSONS FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.
- 5. No other person or entity is authorized to make any express warranty, promise or affirmation of fact or to assume any other liability on behalf of Raritan in connection with its products except as specifically set forth in this warranty.
- 6. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



530 Orange Street, Millville, NJ 08332 USA Telephone: 856-825-4900 FAX: 856-825-4409

www.raritaneng.com Southern Office and Plant:

3101 SW Second Avenue, Fort Lauderdale, FL 33315 USA Telephone: 954-525-0378 FAX: 954-764-4370