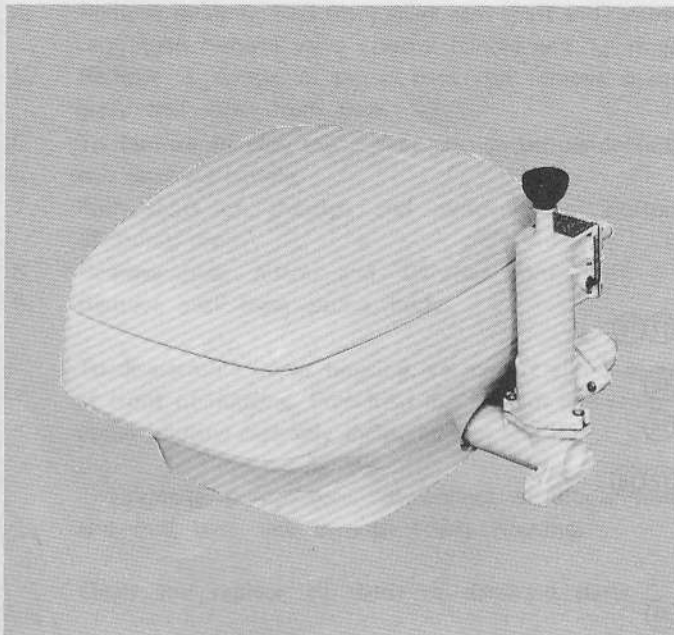


Installation, Operating and Service Instructions



DESIGN FEATURES

- Modern styling, compact low-profile design.
- Reduced water use with swirl flush bowl design.
- Smooth action pump for easy flushing and pump-out.
- Flush - dry bowl valve shuts off inlet when not in use.
- All plastic construction and corrosion resistant fasteners for seawater use.

Specifications

3/4" hose inlet, 1 1/2" hose outlet
13 3/4" high, 20" wide, 19" deep.
Weight: 14 lbs.

MODEL: 42150-0000

INSTALLATION INSTRUCTIONS

The PAR manual toilet may be installed above or below the waterline. Seacocks must be used for thru hull fittings when installed below waterline.

To install toilet, remove retaining screw at front of housing with Phillips screw driver and press rear locking slot to remove upper housing assembly, including seat and lid.

Locate toilet on flat surface and fasten lower housing to deck with four screws through mounting holes provided. Fasten pump base to deck securely through the two holes provided.

PLUMBING CONNECTIONS. Make sure all inlet connections are airtight and free of sharp bends or restrictions. Discharge hose should be free of sharp bends or restrictions. Use non-collapsible hose or tubing.

For installations below waterline, use vented loop about 8" above waterline at all angles of heel or trim for both intake and discharge hoses.

For installations above waterline, make a loop in the discharge line about 8" above base of bowl to retain water in bowl.

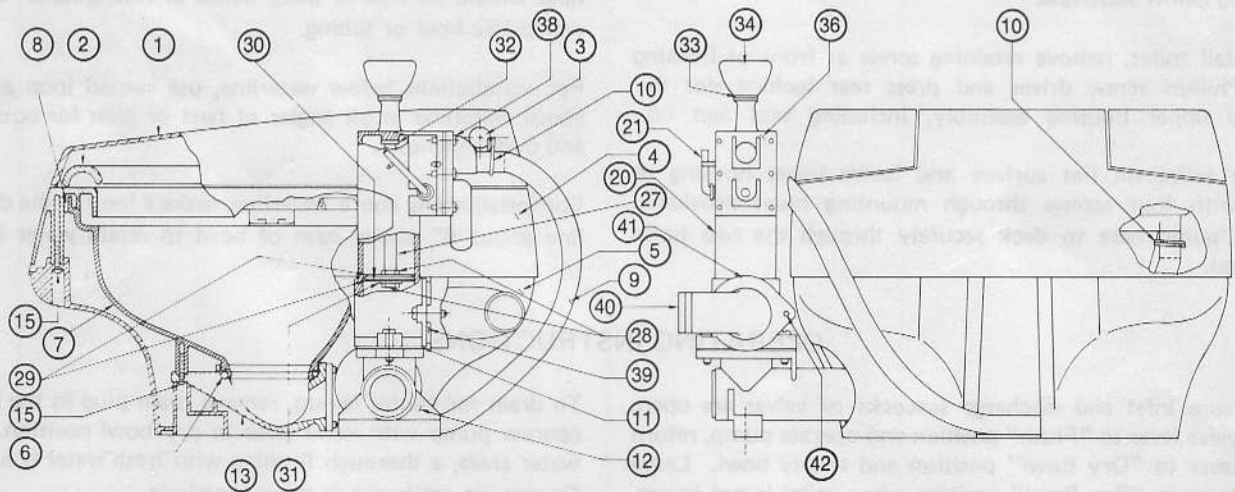
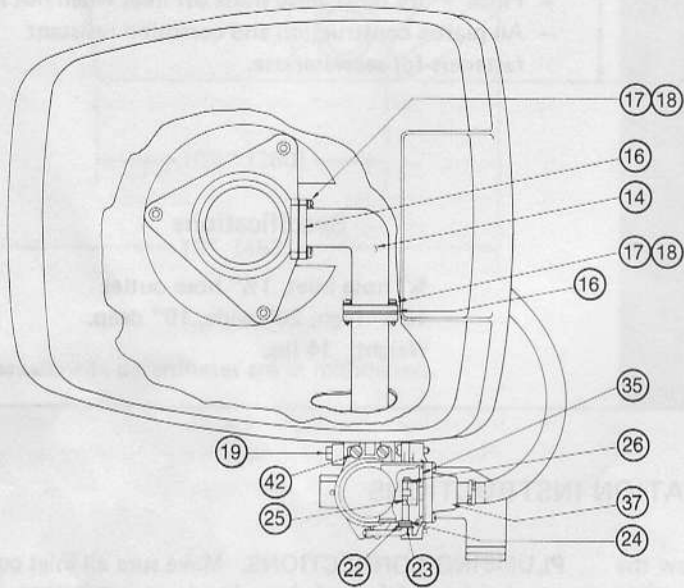
OPERATING INSTRUCTIONS

Make sure inlet and discharge seacocks or valves are open. Move valve lever to "Flush" position and operate pump, return valve lever to "Dry Bowl" position and empty bowl. Leave valve lever in "Dry Bowl" position when toilet is not in use. Close seacocks when boat is unattended.

To drain for winter lay-up, remove drain plug in the base and operate pump with valve lever in dry bowl position. In salt water areas, a thorough flushing with fresh water is suggested. Do not use antifreeze or other chemicals.

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EXPLODED VIEW



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SERVICE INSTRUCTIONS

DISASSEMBLY

1. Remove intake hose from top of pump.
2. Remove 2 screws and clamp for discharge elbow and remove same.
3. Remove 6 screws from dry bowl valve cover and remove cover, valve assembly and intake valve seat.
4. Remove retaining ring from valve cam shaft and remove cam, then remove valve control handle and 'O' rings.
5. Remove 3 screws in pump base and remove pump body and valve from base.
6. To remove handle, use socket wrench on piston nut and unscrew handle.
7. Push shaft on through and remove from bottom of pump body.
8. Remove nuts, piston and 'O' ring from shaft.
9. Remove seal from pump body.

To disassemble upper housing, remove retaining screw at front of housing. Press rear locking slot and remove upper housing assembly including seat and lid.

To remove pump base, disconnect at elbow joint and pull base out through lower housing.

Clean and replace all worn or damaged parts.

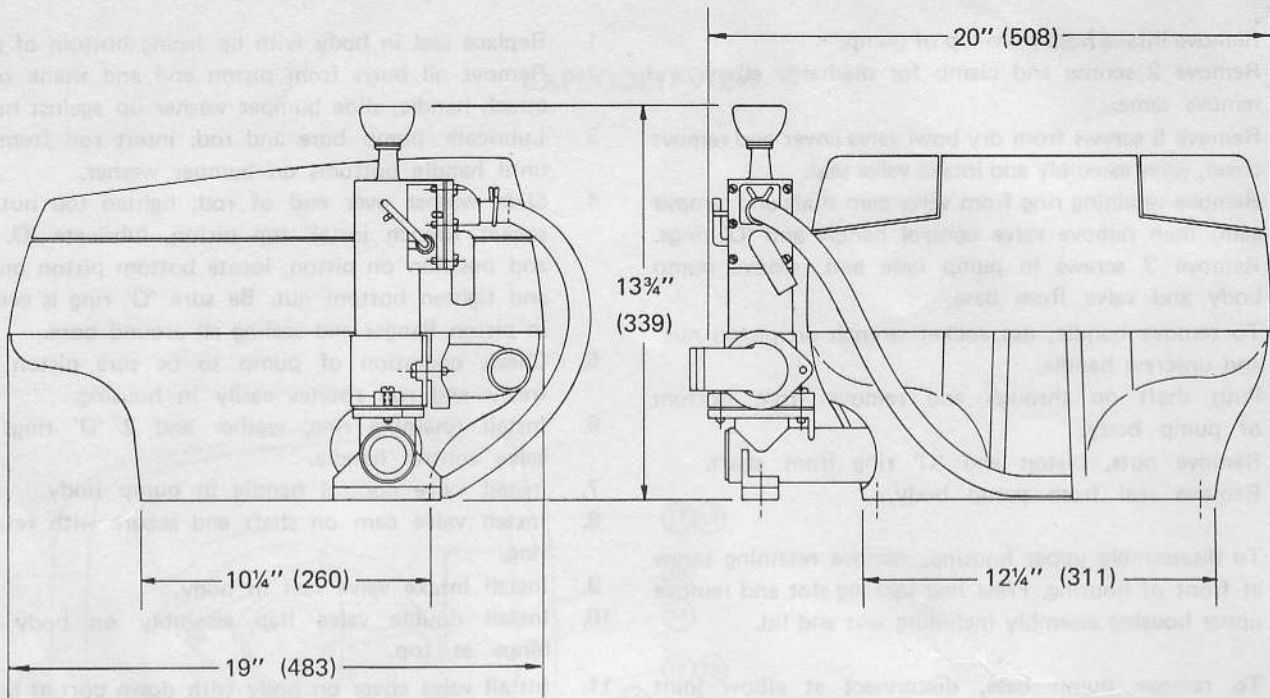
ASSEMBLY

1. Replace seal in body with lip facing bottom of pump.
2. Remove all burrs from piston end and shank of rod, attach handle, slide bumper washer up against handle.
3. Lubricate pump bore and rod, insert rod from top until handle bottoms on bumper washer.
4. Slide washer over end of rod, tighten top nut with socket wrench install top piston, lubricate 'O' ring and position on piston, locate bottom piston on rod and tighten bottom nut. Be sure 'O' ring is centered in piston flanges and sealing all around bore.
5. Check operation of pump to be sure piston slides freely and rod rotates easily in housing.
6. Install retaining ring, washer and 2 'O' rings on valve control handle.
7. Install valve control handle in pump body.
8. Install valve cam on shaft and secure with retaining ring.
9. Install intake valve seat in body.
10. Install double valve flap assembly on body with hinge at top.
11. Install valve cover on body with down port at bottom and secure with screws.
12. Install joker valve in discharge port.
13. Install discharge port on body (secure with clamp and screws).
14. Install base flap assembly on base with weight on top.
15. Reassemble pump base, upper housing assembly and connect inlet and discharge hoses.

PARTS LIST

KEY	DESCRIPTION	PART NUMBER	QTY. REQ.	KEY	DESCRIPTION	PART NUMBER	QTY. REQ.
1	Lid	18047-0000	1	24	'O' Ring Seal	59127-7023	2
2	Seat	18046-0000	1	25	Valve Cam	59127-7021	1
3	Pivot Pin	18034-0000	2	26	Cam Retaining Ring	59127-7052	1
4	Upper Housing	18036-0000	1	27	Piston Rod	59127-7014	1
5	Lower Housing	42153-0000	1	28	3/8 - 16 Brass Hex Nut	57000-8105	2
6	Bowl Seal, Lower	18110-0000	1	29	Piston	59127-7015	2
7	Bowl	18043-0000	1	30	Piston 'O' Ring	59127-7016	1
8	Bowl Seal, Upper	18044-0000	1	31	5/8 Flat Washer	57000-8160	1
9	Hose	42162-0000	1	32	Seal	59127-7017	1
10	Hose Clamp	18037-0000	2	33	Bumper Washer	59127-7018	1
11	Valve-Gasket	59127-7041	1	34	Knob	92330-0092	1
12	Pump Base	42155-0000	1	35	Intake & Valve Seat	59127-7026	1
13	Bowl Base	42154-0000	1	36	Double Flap Valve Gasket	59127-7040	1
14	Elbow	42156-0000	1	37	Valve Cover	59127-7027	1
15	Screw	91045-0361	4	38	3/4" x No. 10 Rd. Head Screw	57000-8515	6
16	Gasket	42159-0000	2	39	Joker Valve	59127-7013	1
17	Screw	96050-0479	8	40	Discharge Elbow	59127-7012	1
18	Washer	91602-0120	8	41	Discharge Flange	59127-7011	1
19	Drain Plug	92650-0206	1	42	1" x No. 14 Rd. Head Screw	57000-8510	5
20	Pump Cylinder	59127-7009	1		Service Kit	59300-0000	-
21	Valve Control Handle	59127-7031	1				
22	Retaining Ring	59127-7042	1				
23	Washer	57000-8485	5				

DIMENSIONAL DRAWING



Dimensions in parentheses are in millimeters.

PARTS LIST

QTY REQ	PART NUMBER	DESCRIPTION	KEY	QTY REQ	PART NUMBER	DESCRIPTION	KEY
2	80137-0000	Oil Ring Seal	31	1	18047-0000	Lub	1
2	80137-1001	Valve Cam	32	1	18048-0000	Seat	2
1	80137-1002	Cam Retaining Ring	33	2	18049-0000	Push Springs	3
1	80137-1014	Retainer	34	1	18050-0000	Lower Springs	4
2	80137-0100	Oil Seal	35	1	18051-0000	Lower Springs	5
2	80137-1003	Pin	36	1	18052-0000	Ball Seat Lower	6
1	80137-1004	Pin	37	1	18053-0000	Seat	7
1	80137-1005	Pin	38	1	18054-0000	Ball Seat Upper	8
1	80137-1006	Pin	39	1	18055-0000	Ball	9
1	80137-1007	Pin	40	1	18056-0000	Ball	10
1	80137-1008	Pin	41	1	18057-0000	Ball	11
1	80137-1009	Pin	42	1	18058-0000	Ball	12
1	80137-1010	Pin	43	1	18059-0000	Ball	13
1	80137-1011	Pin	44	1	18060-0000	Ball	14
1	80137-1012	Pin	45	1	18061-0000	Ball	15
1	80137-1013	Pin	46	1	18062-0000	Ball	16
1	80137-1014	Pin	47	1	18063-0000	Ball	17
1	80137-1015	Pin	48	1	18064-0000	Ball	18
1	80137-1016	Pin	49	1	18065-0000	Ball	19
1	80137-1017	Pin	50	1	18066-0000	Ball	20
1	80137-1018	Pin	51	1	18067-0000	Ball	21
1	80137-1019	Pin	52	1	18068-0000	Ball	22
1	80137-1020	Pin	53	1	18069-0000	Ball	23
1	80137-1021	Pin	54	1	18070-0000	Ball	24
1	80137-1022	Pin	55	1	18071-0000	Ball	25
1	80137-1023	Pin	56	1	18072-0000	Ball	26
1	80137-1024	Pin	57	1	18073-0000	Ball	27
1	80137-1025	Pin	58	1	18074-0000	Ball	28
1	80137-1026	Pin	59	1	18075-0000	Ball	29
1	80137-1027	Pin	60	1	18076-0000	Ball	30
1	80137-1028	Pin	61	1	18077-0000	Ball	31
1	80137-1029	Pin	62	1	18078-0000	Ball	32
1	80137-1030	Pin	63	1	18079-0000	Ball	33
1	80137-1031	Pin	64	1	18080-0000	Ball	34
1	80137-1032	Pin	65	1	18081-0000	Ball	35
1	80137-1033	Pin	66	1	18082-0000	Ball	36
1	80137-1034	Pin	67	1	18083-0000	Ball	37
1	80137-1035	Pin	68	1	18084-0000	Ball	38
1	80137-1036	Pin	69	1	18085-0000	Ball	39
1	80137-1037	Pin	70	1	18086-0000	Ball	40
1	80137-1038	Pin	71	1	18087-0000	Ball	41
1	80137-1039	Pin	72	1	18088-0000	Ball	42
1	80137-1040	Pin	73	1	18089-0000	Ball	43
1	80137-1041	Pin	74	1	18090-0000	Ball	44
1	80137-1042	Pin	75	1	18091-0000	Ball	45
1	80137-1043	Pin	76	1	18092-0000	Ball	46
1	80137-1044	Pin	77	1	18093-0000	Ball	47
1	80137-1045	Pin	78	1	18094-0000	Ball	48
1	80137-1046	Pin	79	1	18095-0000	Ball	49
1	80137-1047	Pin	80	1	18096-0000	Ball	50
1	80137-1048	Pin	81	1	18097-0000	Ball	51
1	80137-1049	Pin	82	1	18098-0000	Ball	52
1	80137-1050	Pin	83	1	18099-0000	Ball	53
1	80137-1051	Pin	84	1	18100-0000	Ball	54
1	80137-1052	Pin	85	1	18101-0000	Ball	55
1	80137-1053	Pin	86	1	18102-0000	Ball	56
1	80137-1054	Pin	87	1	18103-0000	Ball	57
1	80137-1055	Pin	88	1	18104-0000	Ball	58
1	80137-1056	Pin	89	1	18105-0000	Ball	59
1	80137-1057	Pin	90	1	18106-0000	Ball	60
1	80137-1058	Pin	91	1	18107-0000	Ball	61
1	80137-1059	Pin	92	1	18108-0000	Ball	62
1	80137-1060	Pin	93	1	18109-0000	Ball	63
1	80137-1061	Pin	94	1	18110-0000	Ball	64
1	80137-1062	Pin	95	1	18111-0000	Ball	65
1	80137-1063	Pin	96	1	18112-0000	Ball	66
1	80137-1064	Pin	97	1	18113-0000	Ball	67
1	80137-1065	Pin	98	1	18114-0000	Ball	68
1	80137-1066	Pin	99	1	18115-0000	Ball	69
1	80137-1067	Pin	100	1	18116-0000	Ball	70

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