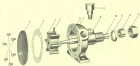


Exploded View and Parts List

EXPLODED VIEW



Note: In general, all parts are standard.

Note: All dimensions are given in millimeters (inches) unless otherwise specified.

Parts List

Qty	Description	Ref. No.
1	Shaft	1
1	Impeller	2
1	Impeller Nut	3
1	Impeller Washer	4
1	Impeller Bolt	5
1	Impeller Lock Washer	6
1	Impeller Lock Nut	7
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1	Impeller Lock Nut	97
1	Impeller Lock Washer	98
1	Impeller Lock Nut	99
1	Impeller Lock Washer	100

Technical Data

Part No.	Part Name
1	Shaft
2	Impeller
3	Impeller Nut
4	Impeller Washer
5	Impeller Bolt
6	Impeller Lock Washer
7	Impeller Lock Nut
8	Impeller Lock Washer
9	Impeller Lock Nut
10	Impeller Lock Washer
11	Impeller Lock Nut
12	Impeller Lock Washer
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95	Impeller Lock Nut
96	Impeller Lock Washer
97	Impeller Lock Nut
98	Impeller Lock Washer
99	Impeller Lock Nut
100	Impeller Lock Washer



DISASSEMBLY



- 1 Remove end cover screws, end cover and gasket.
- 2 Remove main housing or water outlet structure (Fig. 1).
- 3 After taking out main housing, turn the impeller clockwise to remove shaft and impeller assembly (Fig. 1).
- 4 Remove impeller to determine and take repair of impeller (Fig. 2).
- 5 Remove rear cover and pump housing of self-priming model (not using a battery model).
- 6 Remove impeller (Fig. 3).
- 7 Remove oil pump/gearbox putting out using a shaft wrench (Fig. 4).
- 8 Repeat all parts for water damage and replace (Fig. 5).



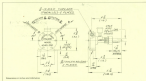
REPAIRING

- 11 Remove impeller and check if it is not damaged. If damaged, remove it and use a new one. Remove screw and replace (Fig. 6).
- 12 Replace impeller on shaft and screw on shaft with screw.
- 13 Lubricate impeller. Turn with a good quality water pump grease. Lubricate ball bearings separately. Oil pump ball, oil pump roller and for the rollers of the impeller are lubricated under the cap.
- 14 Oil the new packing. It is right number of new seal. Insert it in.
- 15 Replace pack nut and head gasket.
- 16 Replace gasket, end cover and screws.
- 17 Reinstall the pump out. During operation, if the pump is not run, it will cause a slight leakage than run normally.

[illegible]

- [illegible]

Abstract



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