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Kev #	Part	Part No.	Kev #	Part	Part No.		
Key # 1,2,3	Part Lid Assembly	Part No. NPP01	Key #	Part Capacitor 20uf NPP550	Part No. NPP23		
Key # 1,2,3 1	Part Lid Assembly Lid Lock Ring	Part No. NPP01 NPP02	Key #	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750	Part No. NPP23 NPP24		
Key # 1,2,3 1 2	Part Lid Assembly Lid Lock Ring Lid Clear Top	Part No. NPP01 NPP02 NPP04	Key #	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500	Part No. NPP23 NPP24 NPP25		
Key # 1,2,3 1 2 3	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring	Part No. NPP01 NPP02 NPP04 OR920	Key #	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover	Part No. NPP23 NPP24 NPP25 NPP26		
Key # 1,2,3 1 2 3 4	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket	Part No. NPP01 NPP02 NPP04 OR920 SBN1	Key #	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket	Part No. NPP23 NPP24 NPP25 NPP26 NPP27		
Key # 1,2,3 1 2 3 4 5a,b,c	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05	Key # 17 18 19	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28		
Key # 1,2,3 1 2 3 4 5a,b,c 5a	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06	Key # 17 18 19	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP750	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07	Key # 17 18 19 20	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP750 Motor NPP1100	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk)	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07	Key # 17 18 19 20	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP750 Motor NPP1100 Motor NPP1500	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP28 NPP29 NPP30 NPP31		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09	Key # 17 18 19 20 21,22,23	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP750 Motor NPP1100 Motor NPP1500 Fan Kit	Part No. NPP23 NPP24 NPP25 NPP26 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP42		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 5c 6 7	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09	Key # 17 18 19 20 21,22,23 21	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP50 Motor NPP1100 Motor NPP1500 Fan Kit Fan	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP29 NPP30 NPP31 NPP42 NPP32		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 5b 5c 6 7 8	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug O-Ring (5pk)	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP10	Key # 17 18 19 20 21,22,23 21 22	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP750 Motor NPP1100 Motor NPP1500 Fan Kit Fan Fan Cover	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP10 OR922	Key # 17 18 19 20 21,22,23 21 22 23	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP550 Motor NPP1500 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Screws (4pk)	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 5b 5c 6 7 6 7 8 9,12,13 9	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk)	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP10 OR922 NPP10 OR923	Key # 17 18 19 20 21,22,23 21 22 23 24	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP550 Motor NPP1500 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Screws (4pk) Motor Base	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13 9 10	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk) Diffuser	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP10 OR922 NPP10 OR923 NPP13	Key # 17 18 19 20 21,22,23 21 22 23 24 25	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP550 Motor NPP1500 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Fan Cover Screws (4pk) Motor Base Motor Base Adaptor	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34 NPP35 NPP36		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13 9 10	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk) Diffuser Impeller NPP550	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP10 OR922 NPP10 OR923 NPP13	Key # 17 18 19 20 21,22,23 21 22 23 24 25 26	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP550 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Fan Cover Screws (4pk) Motor Base Motor Base Adaptor Motor Bolts (4pk)	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34 NPP35 NPP36 NPP35 NPP36		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13 9 10	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk) Diffuser Impeller NPP550 Impeller NPP750	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP10 OR922 NPP10 OR923 NPP13 NPP15	Key # 17 18 19 20 21,22,23 21 22 23 24 25 26 27	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP550 Motor NPP1500 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Fan Cover Screws (4pk) Motor Base Motor Base Adaptor Motor Bolts (4pk)	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34 NPP35 NPP36 NPP37		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13 9 10 11	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk) Diffuser Impeller NPP550 Impeller NPP750 Impeller NPP1100	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP10 OR922 NPP10 OR923 NPP13 NPP15 NPP16	Key # 17 18 19 20 21,22,23 21 22 23 24 25 26 27 Not Shown	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP750 Motor NPP1100 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Fan Cover Fan Cover Screws (4pk) Motor Base Motor Base Adaptor Motor Bolts (4pk) Thru Bolts (4pk) Bearing Set (2pk)	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP30 NPP31 NPP32 NPP32 NPP33 NPP34 NPP35 NPP36 NPP37 NPP38 NPP39 NPP39		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13 9 10 11	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug & O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk) Diffuser Impeller NPP550 Impeller NPP750 Impeller NPP1100 Impeller NPP1500	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP10 OR922 NPP10 OR923 NPP13 NPP15 NPP16 NPP15 NPP16 NPP17	Key # 17 18 19 20 21,22,23 21 22 23 21 22 23 24 25 26 27 Not Shown Not Shown	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP550 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Fan Cover Fan Cover Screws (4pk) Motor Base Motor Base Adaptor Motor Bolts (4pk) Thru Bolts (4pk) Bearing Set (2pk) Capacitor Wire Splice Terminal	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34 NPP35 NPP36 NPP37 NPP38 NPP38		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13 9 10 10	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk) Diffuser Impeller NPP550 Impeller NPP750 Impeller NPP1500 Backplate O-Ring	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP09 NPP10 OR922 NPP10 OR923 NPP13 NPP14 OR923 NPP14 OR923 NPP14 OR923 NPP14 OR923 NPP14 OR923 NPP15 NPP16 NPP17 OR924	Key # 17 18 19 20 21,22,23 21 22 23 24 25 26 27 Not Shown Not Shown Not Shown	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP550 Motor NPP750 Motor NPP100 Fan Kit Fan Fan Cover Fan Cover Fan Cover Fan Cover Screws (4pk) Motor Base Motor Base Adaptor Motor Bolts (4pk) Thru Bolts (4pk) Bearing Set (2pk) Capacitor Wire Splice Terminal Front Shaft Rubber Washer (4pk)	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34 NPP35 NPP34 NPP35 NPP36 NPP37 NPP38 NPP39 NPP38 NPP39 NPP38 NPP39		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13 9 10 11 11	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk) Diffuser Impeller NPP550 Impeller NPP500 Impeller NPP1500 Backplate O-Ring Mechanical Seal	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP09 NPP10 OR922 NPP10 OR923 NPP13 NPP15 NPP16 NPP17 OR924 MC16	Key # 17 18 19 20 21,22,23 21 22 23 24 25 26 27 Not Shown Not Shown Not Shown Not Shown Not Shown	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP750 Motor NPP100 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Fan Cover Fan Cover Screws (4pk) Motor Base Motor Base Adaptor Motor Bolts (4pk) Thru Bolts (4pk) Bearing Set (2pk) Capacitor Wire Splice Terminal Front Shaft Rubber Washer (4pk) Rear Bearing Wear Washer (4pk)	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34 NPP35 NPP36 NPP37 NPP38 NPP38 NPP36 NPP37 NPP38 NPP38 NPP38 NPP40 NPP43 NPP43		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13 9 10 10 11 11	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk) Diffuser Impeller NPP550 Impeller NPP750 Impeller NPP100 Impeller NPP1500 Backplate O-Ring Mechanical Seal Back Plate	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP10 OR922 NPP10 OR923 NPP13 NPP14 OR923 NPP14 OR923 NPP14 OR923 NPP14 OR923 NPP14 OR924 MC16 NPP20	Key # 17 18 19 20 21,22,23 21 22 23 24 25 26 27 Not Shown	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP550 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Fan Cover Fan Cover Screws (4pk) Motor Base Motor Base Adaptor Motor Bolts (4pk) Thru Bolts (4pk) Thru Bolts (4pk) Bearing Set (2pk) Capacitor Wire Splice Terminal Front Shaft Rubber Washer (4pk) Rear Bearing Wear Washer (4pk)	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34 NPP35 NPP36 NPP37 NPP38 NPP39 NPP38 NPP38 NPP39 NPP38 NPP38 NPP39 NPP38 NPP39 NPP38 NPP40 NPP44 NPP45		
Key # 1,2,3 1 2 3 4 5a,b,c 5a 5b 5c 6 7 8 9,12,13 9 10 10 11 11 11 12 13 14 15	Part Lid Assembly Lid Lock Ring Lid Clear Top Lid O-Ring Basket Half Union Assembly Union Sleeve Union Nut Union O-Ring (2pk) Wet End Drain Plug & O-Ring Drain Plug & O-Ring Drain Plug O-Ring (5pk) Seal Kit Diffuser O-Ring (4pk) Diffuser Impeller NPP550 Impeller NPP100 Impeller NPP100 Impeller NPP1500 Backplate O-Ring Mechanical Seal Back Plate Back Plate Back Plate	Part No. NPP01 NPP02 NPP04 OR920 SBN1 NPP05 NPP06 NPP07 OR921 NPP09 NPP09 NPP10 OR922 NPP10 OR923 NPP13 NPP14 OR923 NPP14 OR923 NPP14 OR923 NPP14 OR923 NPP14 OR923 NPP14 NPP15 NPP16 NPP17 OR924 MC16 NPP20 NPP21	Key # 17 18 19 20 21,22,23 21 22 23 24 25 26 27 Not Shown Not Shown	Part Capacitor 20uf NPP550 Capacitor 25uf NPP750 Capacitor 30uf NPP1100 & NPP1500 Capacitor Cover Capacitor Cover Gasket Motor NPP550 Motor NPP750 Motor NPP100 Motor NPP1500 Fan Kit Fan Fan Cover Fan Cover Fan Cover Screws (4pk) Motor Base Motor Base Adaptor Motor Bolts (4pk) Thru Bolts (4pk) Bearing Set (2pk) Capacitor Wire Splice Terminal Front Shaft Rubber Washer (4pk) Rear Bearing Wear Washer (4pk) Rear Shaft Rubber Washer (4pk) Fan Circlip (4pk)	Part No. NPP23 NPP24 NPP25 NPP26 NPP27 NPP28 NPP29 NPP30 NPP31 NPP32 NPP33 NPP34 NPP35 NPP34 NPP35 NPP36 NPP37 NPP38 NPP39 NPP38 NPP40 NPP44 NPP45 NPP45		

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NPP Series Pump Installation & Operating Instructions





Only qualified, licensed personnel should install pump and wiring.

IMPORTANT ELECTRICAL

Electrical Contractors Please Note: Pumps must be wired to the main power supply through an approved and correctly rated contractor.

Pump Mount Must:

- Be solid, level, rigid, and vibration free.
- Allow use of short, direct suction pipe. (To reduce friction losses & do not install pump at more than 3m geometrical height from water level).
- Allow for gate valves in suction and discharge piping.
- Have adequate floor drainage to prevent flooding.
- Be protected from excess moisture.
- * All the adequate access for servicing pump and piping.

NOTICE:

Pump suction and discharge connections have moulded in thread stops, DO NOT try to screw pipe in beyond these stops.

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INSTALLATION

	OPERATION
CAUTION	 NEVER run pump dry! Running pump dry may damage seals, causing leakage and flooding! Fill pump with water before starting motor. Before removing lid: STOP PUMP. CLOSE GATE VALVES in suction and discharge pipes. RELEASE ALL PRESSURE from pump and piping system. NEVER tighten or loosen screws while pump is operation. Do not block pump suction! To do so with body may cause severe or fatal injury. Children using pool must ALWAYS have close adult supervision!
Hazardous suction. Can trap hair or body part, causing severe injury or death. Do not block suction.	 Priming Pump: Release all air from filter and piping system: see filter owner manual. In a flooded suction system (water source higher than pump), pump will prime itself when suction and discharge valves are opened. If pump is not in a flooded suction system, unscrew and remove pump lid; fill pump body with water. Clean and inspect O'Ring; re-install on pump lid. Replace pump lid on pump body; turn clockwise to tighten cover NOTICE: Tighten trap cover by hand only. Pump should prime now. Priming time will depend on vertical length of suction lift and horizontal length of suction piping.
he only routine mainter	Routine Maintenance
ollects in basket, will cho	ke off water flow through the pump. Follow instructions below to clean trap:

- 1.Stop pump, close gate valve in suction and discharge, and release all pressure from system before proceeding.
- 2. Unscrew pump lid (turn counterclockwise).
- 3.Remove strainer basket and clean. Be sure all holes in basket are clear, flush basket with water and replace in trap with large opening at pipe connection port (between ribs provided). If basket is replaced backwards cover will not fit on pump body.
- 4. Clean and inspect lid O'Ring; reinstall on pump lid.
- 5. Clean O'Ring groove on trap body and Replace lid. To help keep lid from sticking, tighten hand tight only.
- 6. Prime pump (see priming instructions above)

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Refer all service to your local agent or dealer as his knowledge of your equipment makes him the best gualified source of information. Order all repair parts through your dealer. Give the following information when ordering repair parts:

- 1. Unit nameplate data or serial number on label.
- 2. Description of part.

MOTOR DOES NOT START

- 1. Disconnect switch or circuit breaker in off position
- 2. Fuses blown or thermal overload open
- 3. Locked motor shaft
- 4. Motor windings burned out
- 5. Defective starting switch inside singl phase motor
- 6. Disconnected or defective wiring
- 7. Low voltage

PUMP DOES NOT REACH FULL SPEED

- 1. Low voltage
- 2. Pump connected for wrong voltage

MOTOR OVERHEATS (protector trips)

- 1. Low voltage
- 2. Motor windings connected for wrong voltage on dual voltage model
- 3. Inadequate ventilation

PUMP DELIVERS NO WATER

- 1. Pump is not primed
- 2. Closed valve in suction or discharge line
- 3. Leakage or air into suction system
- 4. Impeller clogged

LEAKAGE OF WATER AT SHAFT

1. Shaft seal requires replacement

NOTE: If the recommendations in the trouble shooting portion of this manual do not solve your particular problem(s), please contact your local dealer for service.

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SERVICE & REPAIR PARTS

TROUBLE SHOOTING

LOW PUMP CAPACITY

- 1. Valve in suction or discharge line partly closed
- 2. Suction or discharge line partly plugged
- 3. Suction or discharge line too small
- 4. Clogged basket in skimmer or hair and lint strainer
- 5. Dirty filter
- 6. Impeller clogged

HIGH PUMP PRESSURE

- 1. Discharge valve or inlet fittings closed too much
- 2. Return lines too small
- 3. Dirty filters

NOISY PUMP AND MOTOR

- 1. Clogged basket in skimmer or hair in lint strainer
- 2. Worn motor bearings
- 3. Valve in suction line partly closed
- 4. Suction line partly clogged
- 5. Vacuum hose clogged or too small
- 6. Pump not supported properly

AIR BUBBLES AT INLET FITTINGS

- 1. Leakage of air into suction line at connections or valve stem
- 2. Cover gasket of hair and lint strainer needs cleaning
- 3. Low water level in pool