

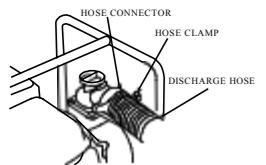
1" water pump	25mm
1.5" water pump	40mm
2" water pump	50 mm
3" water pump	80 mm
4" water pump	100 mm
6" water pump	150mm

Use a hose clamp to securely fasten the hose connector to the suction in order to prevent air and water leakage. Check to ensure that the hose connector sealing washer is in a good condition.

Install the strainer (provided with the pump) on the other end of the suction hose and secure it with a hose clamp. The strainer will help prevent the pump from becoming clogged or damaged by debris.

4) Discharge Hose Installation

Use the commercially available hose and hose connector, and the hose clamps provided with the pump to install the discharge, and tighten the clamp. Firmly fit the discharge hose without kinking.



It is best to use a short, large-diameter hose, because that will reduce fluid friction and improve pump's output.

Tighten the hose clamp securely to prevent the discharge hose from disconnecting under a high pressure.

5) Priming The Pump

Before starting the engine, make sure to fill the pump with water: screw off the priming plug and prime the pump fully with clean water. Don't screw off the priming plug during operation of the pump to avoid damaging the equipment and injuring persons. Reinstall the priming plug and tighten it securely after priming.

NOTICE

Dry operating of the pump will destroy the pump seal. If the pump has been operated in a dry state, stop the engine immediately and allow the pump to cool before being primed.

PRIMING WATER FILLER CAP

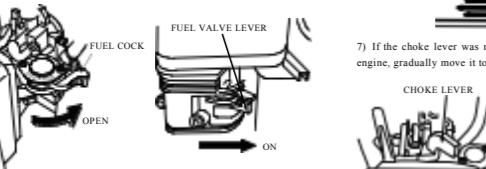


Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

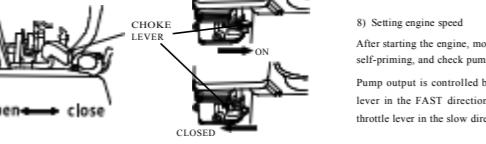
6. STARTING THE ENGINE

1) Screw the priming plug off and prime the pump with water until the water is overflowing (water pump set shall be placed on a level ground).

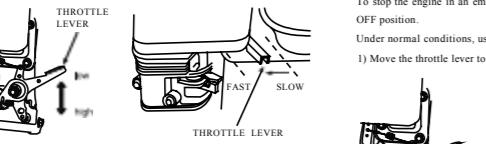
2) Move the fuel valve lever to the "ON" position.



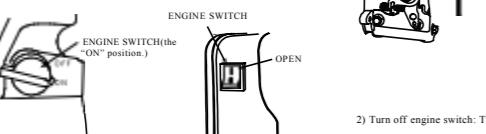
3) To start a cold engine, move the choke lever to the "CLOSED" position.



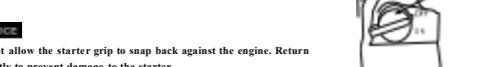
4) Move the throttle lever away from the "SLOW" position about 1/3 of the way toward the "FAST" position.



5) Turn the engine switch to the "ON" position.



6) Pull the starter grip lightly until resistance is felt, then pull it briskly.



NOTICE

Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

7. STOPPING THE ENGINE

2. Turn off engine switch: Turn the engine switch to OFF position.

ENGINE SWITCH

"OFF" position.

3. Turn off engine switch: Turn the engine switch to OFF position.

ENGINE SWITCH

"OFF" position.

4. Turn off engine switch: Turn the engine switch to OFF position.

ENGINE SWITCH

"OFF" position.

5. Turn off engine switch: Turn the engine switch to OFF position.

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6. Turn off engine switch: Turn the engine switch to OFF position.

ENGINE SWITCH

"OFF" position.

7. Turn off engine switch: Turn the engine switch to OFF position.

ENGINE SWITCH

"OFF" position.

8. MAINTENANCE

3) Turn fuel valve lever off: Turn the fuel valve lever to OFF position.

4. Turn fuel valve lever off: Turn the fuel valve lever to OFF position.

NOTICE

A dirty air filter element will restrict air flow to the carburetor, reducing engine performance, if you operate the pump in very dusty areas, clean the air filter more frequently than specified in the maintenance schedule.

NOTICE

Stop the engine before servicing. Put the engine on a level surface and remove the spark plug cap to prevent the engine from starting.

Never run your engine in a poorly ventilated room or other enclosed area, be sure to keep good ventilation in working area. The exhaust from the engine may contain poisonous CO, inhalation can cause shock, unconsciousness and even death.

9. STORAGE

1) Engine

ITEM	MODEL	CAUSE	CORRECTION
		Fuel valve off.	Move fuel valve lever to ON position.
		Choke open.	Move choke lever to CLOSED position unless engine is warm.
		Engine switch OFF.	Turn engine switch to ON.
		Out of fuel.	Refuel.
		Bad fuel pump stored without treating or draining gasoline or refueling with bad gasoline.	Drain fuel tank and carburetor, refuel with fresh gasoline.
		Spark plug faulty fouled or improperly gapped.	Adjust gap or replace with a new spark plug.
		Dry filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Dry and reinstall spark plug, start engine with throttle lever in FAST position.
		Fuel filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Replace or repair.

2) Water pump

3) Engine oil recommendations

Engine oil is a major factor affecting engine performance and service life.

Non-detergent and 2-stroke engine oils will damage the engine and are not recommended.

Recommended oil

4-stroke gasoline oil

SE, SF grades under API service

Classification or SAE 10W-30 that is equivalent SG grade. Of course, you can select according to local temperature.

The recommended operating range of this pump: -5 °C to 40 °C.

4) Air Filter Service

A dirty air filter element will restrict air flow to the carburetor, reducing engine performance, if you operate the pump in very dusty areas, clean the air filter more frequently than specified in the maintenance schedule.

NOTICE

Never run the engine without the air filter or use a damaged air filter. If so, rapid engine wear will result.

NOTICE

Higher pressure flushing water can enter into the air filter and filter, even entering into the cylinder along the air path, resulting in corrosion and damage. So, operation must be performed only after stopping and cooling.

5) Spark Plug Service

Recommended spark plugs: NGK BP6ES or other equivalents.

NOTICE

Wrong model can result in engine damage.

6) Oil Change

Drain the used oil while the engine is warm. Warm oil drains quickly and completely.

1. Place a suitable container below the engine to catch the used oil, then remove the oil filter cap/dripstick and the drain plug.

2. Allow the used oil to drain completely, then reinstall the drain plug, and tighten it securely.

3. With the engine on a level place, fill it to the upper limit with the recommended oil.

7) Fuel Filter Service

Please dispose of used motor oil in a manner that is harmful to the environment. We suggest you use oil in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash, pour it in the ground, or dump into a drain.

4. Reinstall air filter and screw on the butterfly nut.

8) Maintenance

The engine must be properly maintained to ensure its operation be safe, economy and trouble-free, as well as eco-friendly.

In order to keep your gasoline engine in good working condition, it must be periodically serviced. The following maintenance schedule and routine inspection procedures must be carefully followed

9) Storage

should govern.

If you have missed the scheduled time to maintain your engine, do it as soon as possible.

10) Troubleshooting

1) Engine

2) Water pump

3) Engine oil recommendations

4) Air Filter Service

5) Spark Plug Service

6) Oil Change

7) Fuel Filter Service

8) Maintenance

9) Storage

10) Troubleshooting

11) Electric Diagram

12) Specification

13) Water pump

14) Engine

15) Fuel Filter Service

16) Maintenance

17) Storage

18) Troubleshooting

19) Electric Diagram

20) Specification

21) Water pump

22) Engine

23) Fuel Filter Service

24) Maintenance

25) Storage

26) Troubleshooting

27) Electric Diagram

28) Specification

29) Water pump

30) Engine

31) Fuel Filter Service

32) Maintenance

33) Storage

34) Troubleshooting

35) Electric Diagram

36) Specification

37) Water pump

38) Engine

39) Fuel Filter Service

40) Maintenance

41) Storage

42) Troubleshooting

43) Electric Diagram

44) Specification

45) Water pump

46) Engine

47) Fuel Filter Service

48) Maintenance

49) Storage

50) Troubleshooting

51) Electric Diagram

52) Specification

53) Water pump

54) Engine

55) Fuel Filter Service

56) Maintenance

57) Storage

58) Troubleshooting

59) Electric Diagram

60) Specification

61) Water pump

62) Engine

63) Fuel Filter Service

64) Maintenance

65) Storage

66) Troubleshooting

67) Electric Diagram

68) Specification

69) Water pump

70) Engine

71) Fuel Filter Service

72) Maintenance

73) Storage

74) Troubleshooting

75) Electric Diagram

76) Specification

77) Water pump

78) Engine

79) Fuel Filter Service

80) Maintenance

81) Storage

82) Troubleshooting

83) Electric Diagram

84) Specification

85) Water pump

86) Engine

87) Fuel Filter Service

88) Maintenance

89) Storage

90) Troubleshooting

91) Electric Diagram

92) Specification

93) Water pump

94) Engine

95) Fuel Filter Service

96) Maintenance

97) Storage

98) Troubleshooting

99) Electric Diagram

100) Specification

101) Water pump

PREFACE

Thank you for choosing a water pump of our company.

Please keep the owner's manual for reference.

This manual should be considered a permanent part of the water pump and should remain with the water pump if it is resold.

The manual instructs the user how to operate the water pump including the models of 1", 1.5", 2", 3", 4" and 6", and be sure to read it carefully first before operation to get the best results. If a problem should arise or if you have any questions about the pump, consult an authorized dealer of our company.

All information and diagrams of this manual are provided in accordance with the newest products at the publishing time. If revision or any other change is made in respect of the information described in this manual, making it a little different from the product's actual status, our company will explain it. Our company reserves the right to make changes at any time without notice and without incurring any obligation. No part of this publication may be reproduced without written permission of our company.

1. SAFETY

Our company's water pump is designed to give safe and reliable service if operated according to instructions. Read and understand the Owner's Manual before operating the water pump. Failure to do so could result in personal injury or equipment damage.

Safety Messages

Your safety and the safety of others are very important. We have provided guidelines for using this manual and on water pump and engine. A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol and one of three words: WARNING, CAUTION, or NOTICE. These mean:

You CAN BE KILLED or SERIOUSLY HURT if you don't follow instructions.

You CAN BE HURT if you don't follow instructions.

Your water pump or other property could be damaged if you don't follow instructions.

-1-

WARNING

CAUTION

NOTICE

1) Safety Instruction

Clean water pump and high pressure pump are only designed for pumping clear water. Sewage pump has the ability of transmitting soft solids within the diameter of 25.4mm. Chemical pumps is used for transmission of weak acid and base (PH-11), high ignition temperature liquid and sea water. Mud pump is suitable for pumping water with up to 50% solid sewage. Capacity is diameter of 25.4mm.

To prevent fire hazards and to provide adequate ventilation, keep the pump at least 1 meter away from each of the building walls and other equipment during operation. Do not place flammable objects close to the pump and do not fill the fuel tank with gasoline before long distance transportation.

The pump becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. Let the engine cool before storing the water pump indoors.

Gasoline is highly flammable and explosive. Don't smoke in the refueling and fuel storage area.

Place the pump on a firm, level surface.

If the pump is tilted or over-turned, damage may result.

Refuel in a well-ventilated area with the engine stopped, and in places for refueling or storing gasoline. If spilling occurs, immediately clean it.

After refueling, cover the fuel tank well and screw it down.

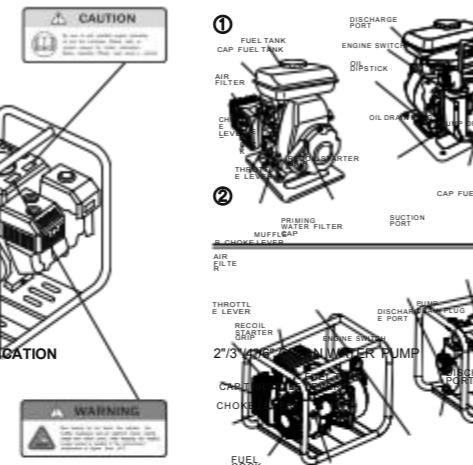
Exhaust contains poisonous carbon monoxide gas that can build up to dangerous levels in enclosed areas. Breathing carbon monoxide can cause unconsciousness or death.

Don't screw off the plug while the engine is running to avoid damaging the equipment and hurting the persons.

Children and pets must be kept away from the area of operation due to a possibility of burns from the hot engine components.

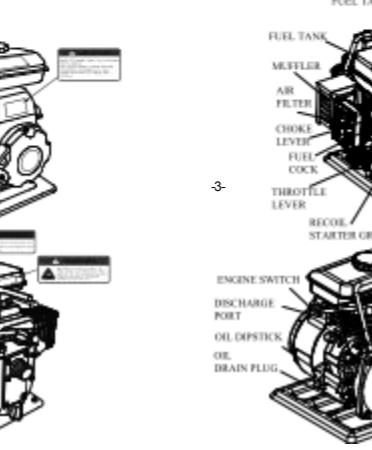
The machine is forbidden to be operated in a potentially explosive atmosphere.

2) Safety Label

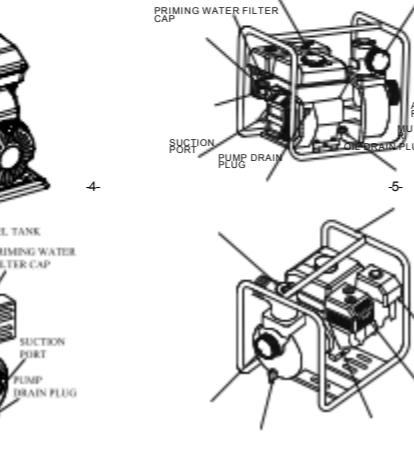


3) Component Identification

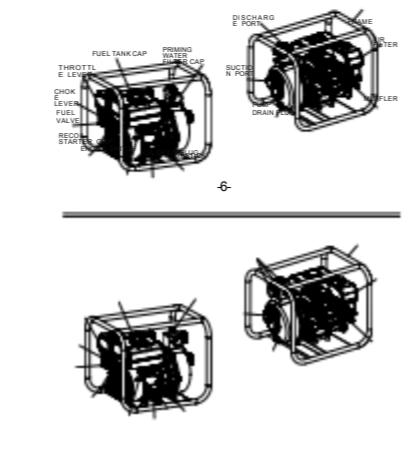
1" CLEAN WATER PUMP



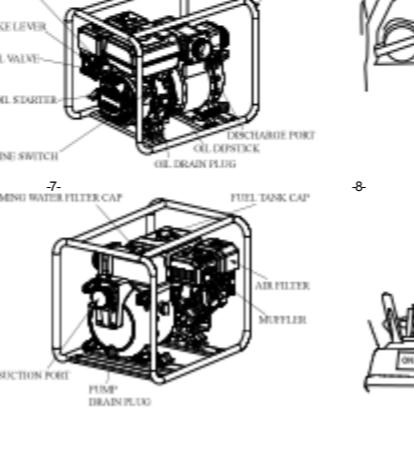
2" HIGH PRESSURE PUMP



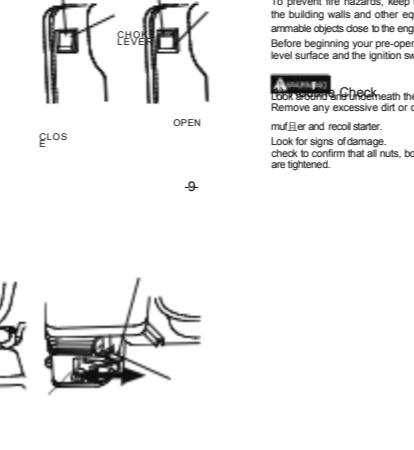
3" MUD PUMP



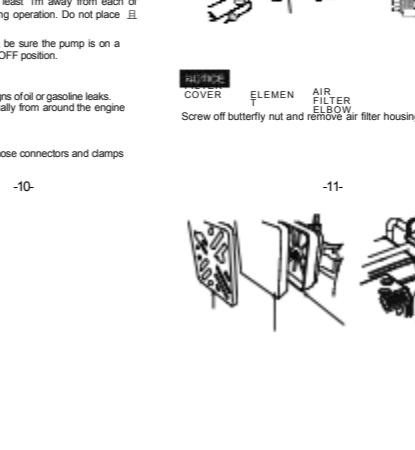
4" CHEMICAL PUMP



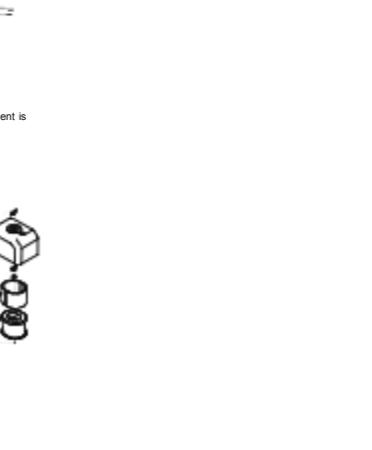
5" SEWAGE PUMP



6" 1.5" CLEAN WATER PUMP



7" 2/3" CLEAN WATER PUMP



8" 3" CLEAN WATER PUMP



9" 4" CLEAN WATER PUMP

10" 6" CLEAN WATER PUMP

11" 6" SEWAGE PUMP

12" 6" CHEMICAL PUMP

13" 6" MUD PUMP

14" 6" HIGH PRESSURE PUMP

15" 6" MUD PUMP

16" 6" SEWAGE PUMP

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41" 6" CHEMICAL PUMP

42" 6" HIGH PRESSURE PUMP

43" 6" MUD PUMP

44" 6" HIGH PRESSURE PUMP

45" 6" MUD PUMP

46" 6" SEWAGE PUMP

