

Earthquake[®]

WP6520 & WP6530 WATER PUMPS OPERATOR'S MANUAL



WP6520



GetEarthquake.com

OMWP65
R070209

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Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Description

Earthquake Pumps are general use centrifugal water pumps.

Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.

⚠ DANGER

Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

Notice indicates important information, that if not followed, may cause damage to equipment.

GENERAL SAFETY INFORMATION

1. Know the pump application, limitations, and potential hazards. Read these rules and the instructions carefully. Failure to follow them could cause serious bodily injury and/or property damage.

⚠ DANGER

Never run engine in an enclosed area. Exhaust gases contain deadly poisonous carbon monoxide, which has no odor or taste.

⚠ WARNING

Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in flammable and/or explosive atmospheres. Pump should only be used to pump water. Failure to follow this warning can result in personal injury and/or property damage.

2. Observe all safety precautions for the handling of the fuel.

⚠ WARNING

Do not refuel a hot engine. Fuel spilled on a hot engine could result in a fire or explosion. Do not refuel a running engine.

3. Pump should be located and should rest on a level solid foundation. Do not suspend pump by means of the discharge pipe.

NOTICE

Be sure pump is on secure footing so it doesn't fall over.

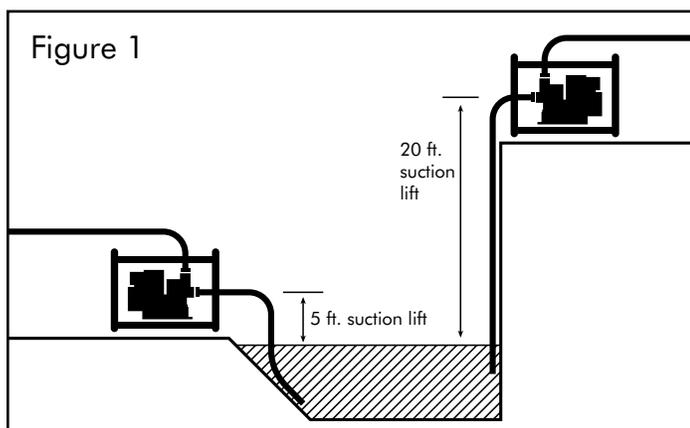
4. Do not use torches or apply excessive heat, fire or flames to this pump as an explosion may result.

- Before working on the unit, insulate the wire from the spark plug, disconnect the spark plug wire and mount it on the grounding clip.

NOTICE

Complete pump and piping system MUST be protected against below freezing temperature. Failure to do so could cause serious damage and voids the warranty.

- Do not run pump dry. Water is required to lubricate the shaft seal.
- Pumping chemicals or corrosive liquids with this pump may shorten the life of the pump and may be hazardous to the operator.
- Personal Safety:
 - Wear safety glasses at all times when working with pumps.
 - Keep work area clean, uncluttered and properly lighted; replace all unused tools and equipment.
 - Keep visitors at a safe distance from the work area.
- Always use a suction strainer with this pump to filter large material.



INSTALLATION

This pump is designed to be self-priming when installed and operated as specified below.

- The pump should be placed as close as possible to the liquid being pumped. A pump with 20 foot suction lift will not remove water as quickly as a pump with 5 foot suction lift (Figure 1).
- Suction hose and fitting must be airtight.

NOTICE

An air leak in the suction line may prevent priming of the pump. Use of thread sealant is recommended.

Suction lines must be reinforced hose or rigid pipe. Non-reinforced hose will collapse due to the suction created by the pump and prevent pump from operating.

- A check valve must be used in the suction line to maintain the self-priming capability. If no check valve is used the pump will need to be primed at the start of each operation. For best operation, the check valve should be installed at the intake of the suction line.
- A suction strainer is required to filter abrasive material
- The discharge hose and fitting should not leak. A leak in the discharge hose will allow water to spray out. Water spray could be hazardous.
- Keep all pipes and hose lines as short and straight as possible. Long lengths and curves in the pipes and hose lines will reduce the pressure the pump develops.

7. Fill the engine crankcase with oil. Refer to the engine operating manual for the specific grade of oil and amount required.
8. Fill the engine fuel tank with gasoline. Refer to the engine operating manual for specific gasoline type that is most efficient for this engine.
9. Add water to the priming port on the pump (See Figure 2). Continue adding water until the water level is approximately 3 inches from the top. Install the priming plug. The water in the pump will create the suction that primes the pump.

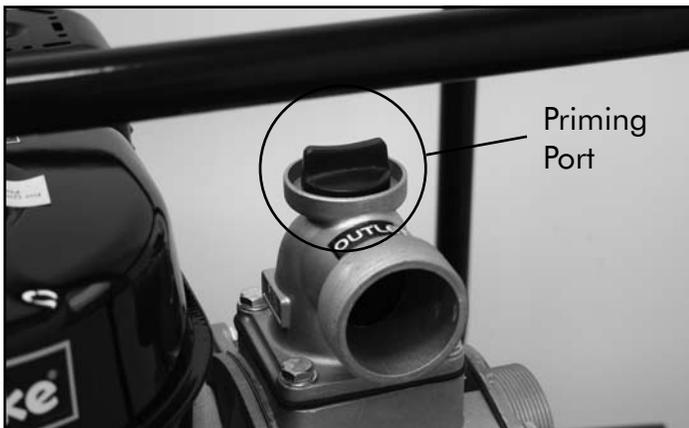


Figure 2

10. Turn fuel valve to 'ON' position.
11. Move choke lever to 'CHOKE' position.
12. Move throttle lever to 'START' position.
13. Pull engine crank until engine starts. Once engine starts, move choke lever to 'RUN' position.
14. The pump will take several minutes to prime.

PIPING

Always place the pump as close as possible to the liquid being pumped. Keep all pipe and hose lines as short and straight as possible.

▲ WARNING

Support pump and piping when assembling and after installation. Failure to do so may cause piping to break, pump to fail, etc; all of which can result in property damage and/or personal injury.

All suction connections must be airtight. If the pump won't prime, check for leaks in the suction piping or fittings. If flexible suction hose is used instead of pipe, use reinforced hose with a two inch inner diameter. Non-reinforced flexible hose may collapse from the vacuum created as the pump primes.

Always use a strainer at the end of the suction pipe or hose. Position strainer so it doesn't become clogged with stones or debris. A suction line check valve next to strainer is recommended.

Do not use this pump for suction lifts over twenty-five feet.

MAINTENANCE

Always shut off the engine, allow the engine to cool, and remove the spark plug before performing any maintenance.

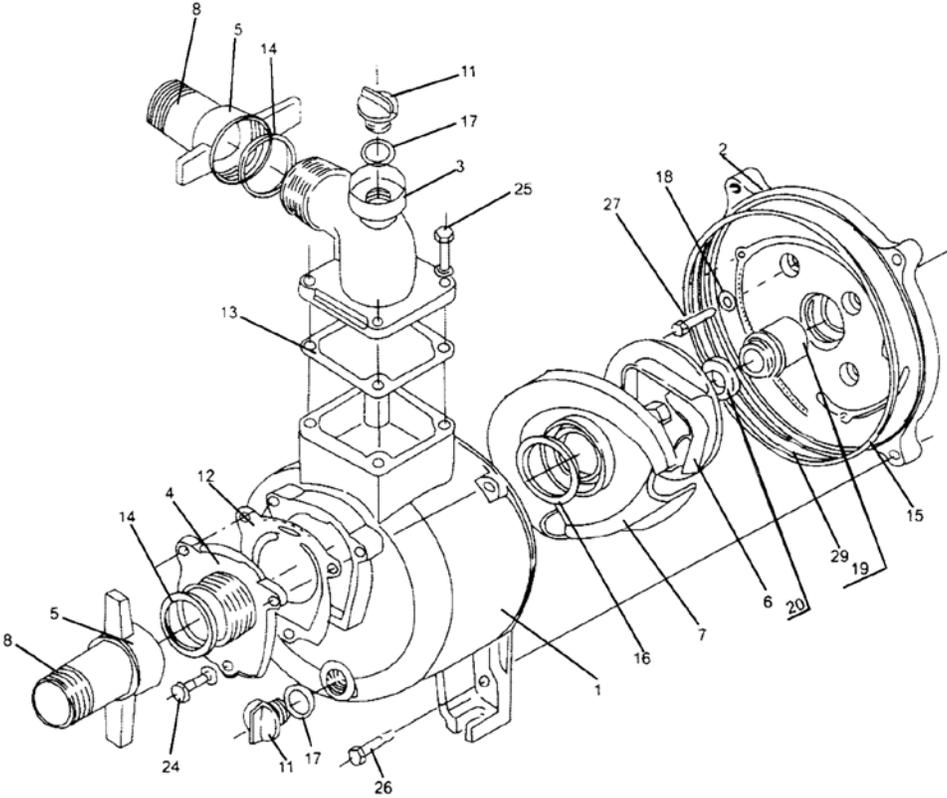
During freezing weather, open the drain port and allow all the water in the pump to drain. This will prevent damage to the pump when the water freezes. If the pump will be stored for a month or more, drain the water from the pump and follow the engine manufacturer's recommendations for long-term storage.

The Viper engine is equipped with a low oil shut off sensor. The engine will shut down and will not restart if the oil level becomes low.

WP6520 PUMP PARTS LIST 2 INCH				WP6530 PUMP PARTS LIST 3 INCH			
			QTY EA				QTY EA
1	913300	PUMP OUTBOARD CASE 2 INCH	1	1	913320	PUMP OUTBOARD CASE 3 INCH	1
2	913347	PUMP INBOARD CASE 2 INCH	1	2	913321	PUMP INBOARD CASE 3 INCH	1
3	913302	PUMP DISCHARGE FLANGE 2 INCH	1	3	913322	PUMP DISCHARGE FLANGE 3 INCH	1
4	913303	PUMP INLET FLANGE 2 INCH	1	4	913323	PUMP INLET FLANGE 3 INCH	1
5	913304	PUMP HAND NUT 2 INCH	2	5	913324	PUMP HAND NUT 3 INCH	2
6	913305	PUMP IMPELLER 2 INCH	1	6	913351	PUMP IMPELLER 3 INCH	1
7	913306	PUMP VOLUTE 2 INCH	1	7	913326	PUMP VOLUTE 3 INCH	1
8	913307	PUMP HOSE ADAPTER 2 INCH	2	8	913327	PUMP HOSE ADAPTER 3 INCH	2
NS*	913308	PUMP FILTER CONE 2 INCH	1	NS*	913352	PUMP FILTER CONE 3 INCH	1
NS*	913348	PUMP FILTER CAP W/ADPT 2 INCH	1	NS*	913353	PUMP FILTER CAP W/ADPT 3 INCH	1
11	913310	PUMP PRIMER CAP	2	11	913310	PUMP PRIMER CAP	2
12	913311	PUMP CHECK FLAP 2 INCH ¹	1	12	913330	PUMP CHECK FLAP 3 INCH ³	1
13	913312	PUMP GASKET DISCHARGE 2 INCH ¹	1	13	913331	PUMP GASKET DISCHARGE 3 INCH ³	1
14	913313	PUMP GASKET INLET 2 INCH ¹	2	14	913355	PUMP GASKET INLET 3 INCH ³	2
15	913314	PUMP CASE O-RING 2 INCH ¹	1	15	913333	PUMP CASE O-RING 3 INCH ³	1
16	913340	PUMP VOLUTE O-RING 2 INCH ¹	1	16	913341	PUMP VOLUTE O-RING 3 INCH ³	1
17	913315	PUMP PRIMER CAP GASKET ¹	2	17	913315	PUMP PRIMER CAP GASKET ³	2
18	913349	PUMP RUBBER #8 WASHER ¹	4	18	913349	PUMP RUBBER #8 WASHER ³	1
19	913317	PUMP MECHANICAL SEAL 2 INCH ²	1	19	913334	PUMP MECHANICAL SEAL 3 INCH ⁴	1
20	913318	PUMP ROTATING SEAL 2 INCH ²	1	20	913335	PUMP ROTATING SEAL 3 INCH ⁴	1
NS*	913319	PUMP HOSE CLAMP 2 INCH	3	NS*	913342	PUMP SPRING MECHAN. SEAL 3 IN ⁴	1
24	64595	BOLT M8 X 20 HHFCS	4	NS*	913336	PUMP HOSE CLAMP 3 INCH	3
25	64595	BOLT M8 X 20 HHFCS	4	24	913357	BOLT M10 X 20 HHFCS	3
26	64617	BOLT M8 X 25 HHFCS	4	25	913358	BOLT M10 X 25 HHFCS	4
27	64617	BOLT M8 X 25 HHFCS	4	26	913358	BOLT M10 X 25 HHFCS	4
				27	913339	BOLT M8 X 65 HHFCS	4

¹ SOLD ONLY AS 913350 - PUMP GASKET SERVICE KIT 2 INCH
² SOLD ONLY AS 913346 - PUMP SEAL SERVICE KIT 2 INCH
 * NS = not shown

³ SOLD ONLY AS 913343 - PUMP GASKET SERVICE KIT 3 INCH
⁴ SOLD ONLY AS 913359 - PUMP SEAL SERVICE KIT 3 INCH
 * NS = not shown





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