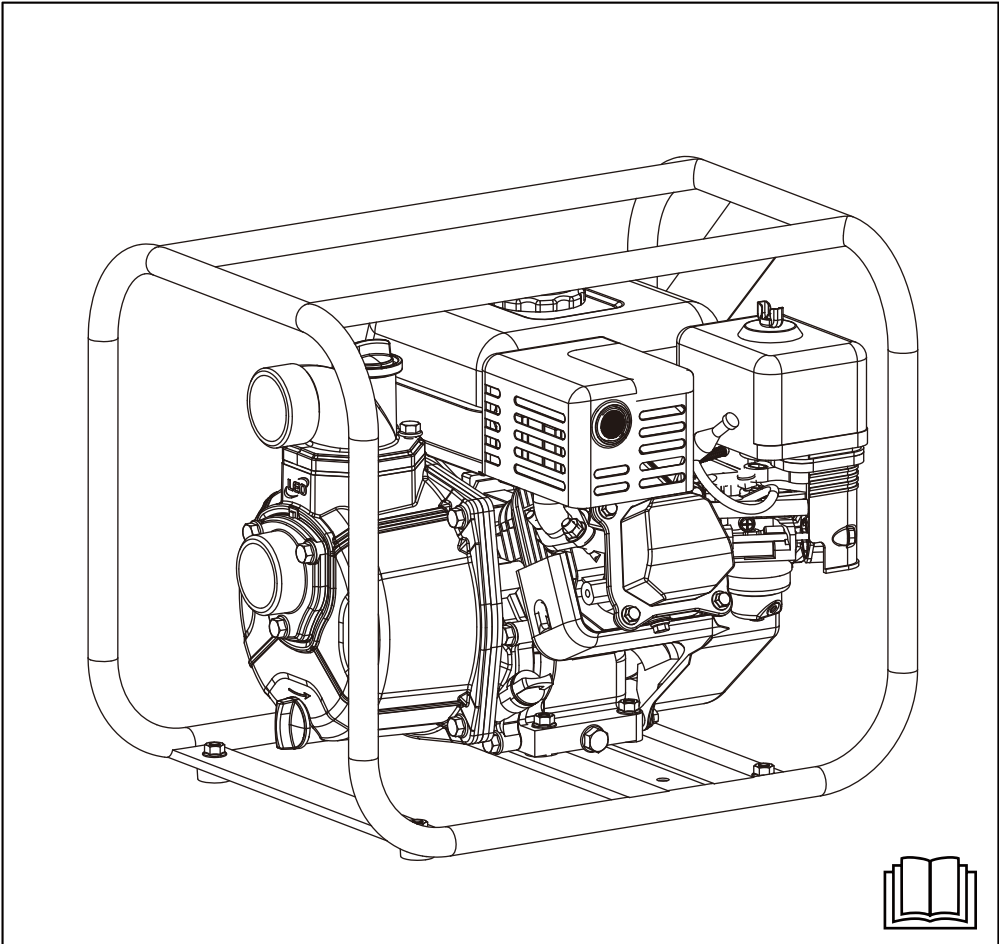




RPTP196

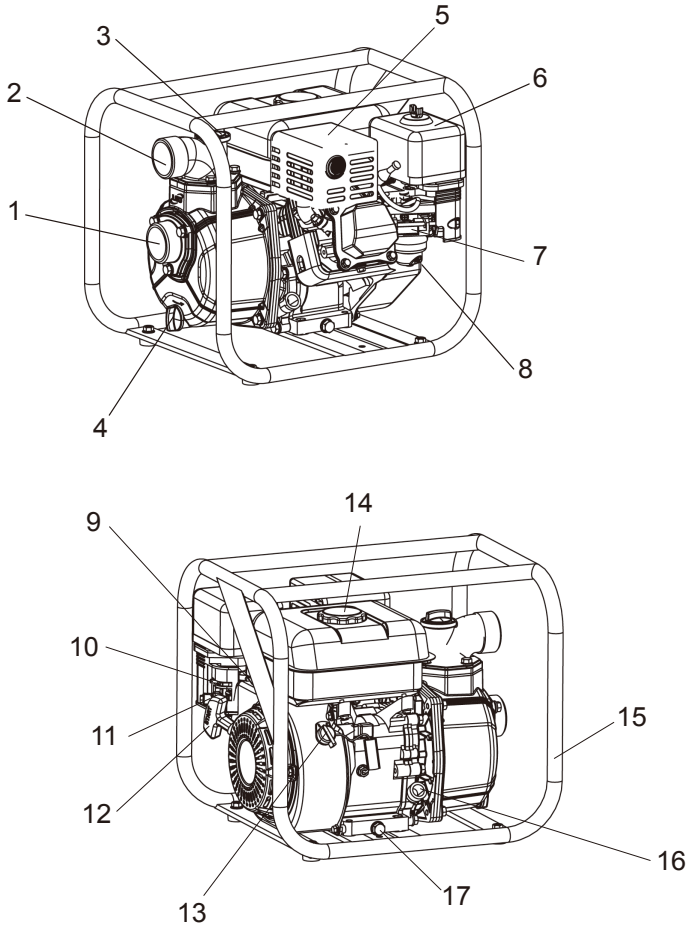
**196cc TRANSFER PUMP
OWNER'S OPERATING MANUAL**



DESCRIPTION

Components List

- | | |
|---------------------------|---------------------|
| 1. Inlet | 11. Fuel Valve |
| 2. Outlet | 12. Recoil Starter |
| 3. Filling Plug | 13. Engine Switch |
| 4. Water Drain Plug | 14. Fuel Tank Cover |
| 5. Muffler | 15. Frame |
| 6. Air Filter | 16. Oil Dipstick |
| 7. Carburetor | 17. Oil Drain Plug |
| 8. Fuel Sediment Cup | |
| 9. Throttle Control Lever | |
| 10. Choke Control Lever | |



DESCRIPTION

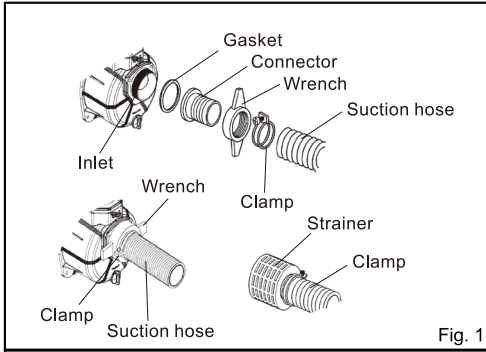


Fig. 1

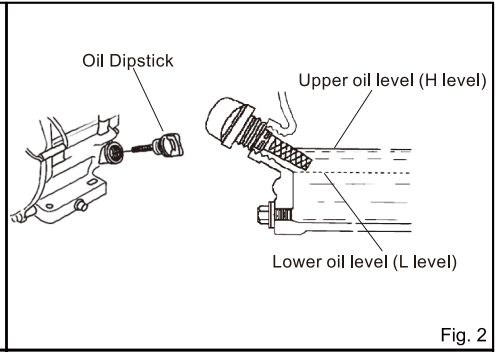


Fig. 2

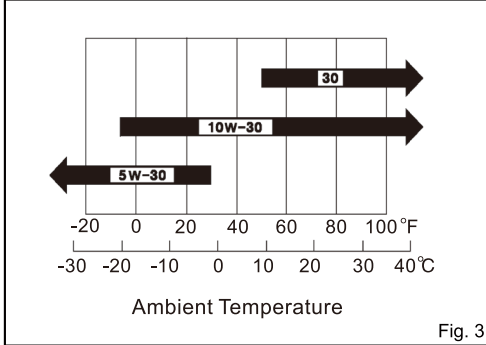


Fig. 3

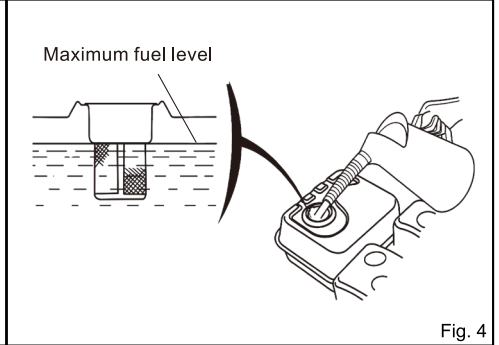


Fig. 4

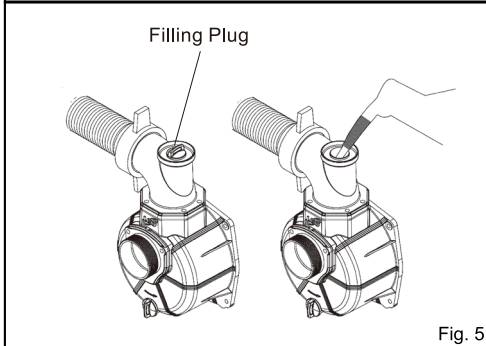


Fig. 5

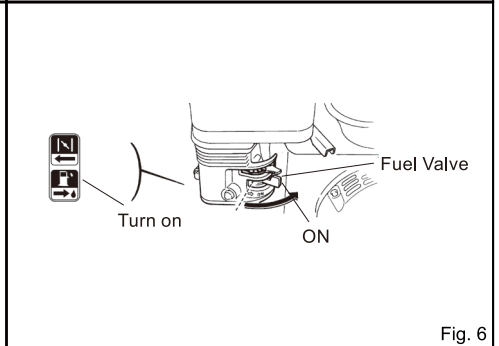


Fig. 6

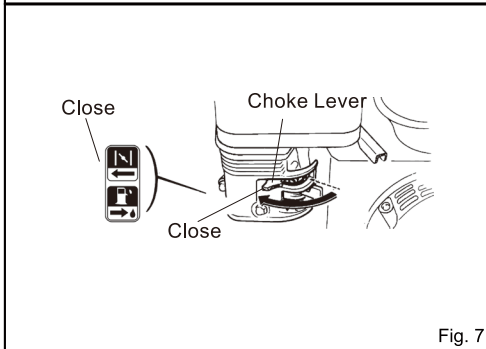


Fig. 7

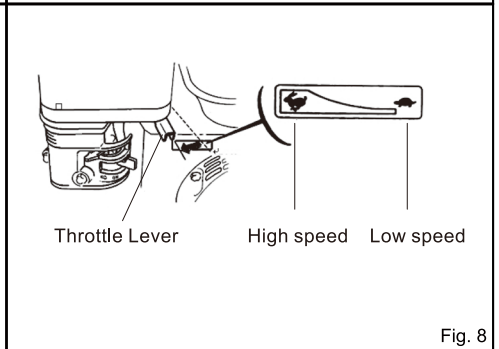


Fig. 8

DESCRIPTION

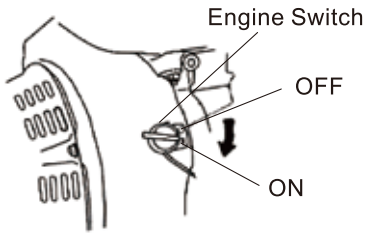


Fig.9

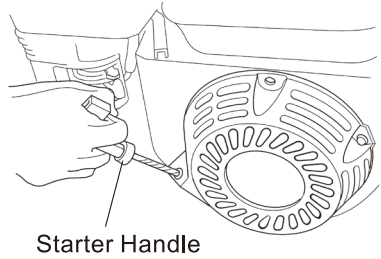


Fig.10

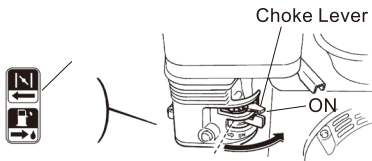


Fig.11

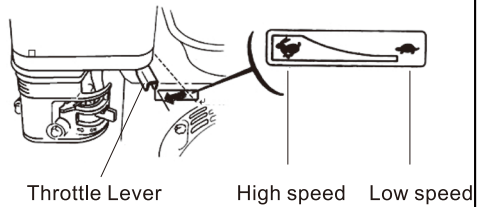


Fig.12

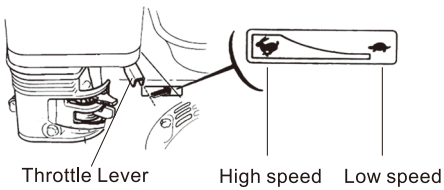


Fig.13

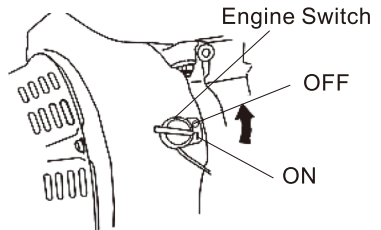


Fig.14

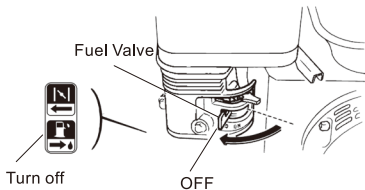


Fig.15

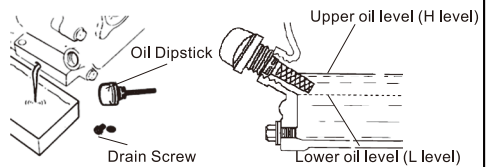


Fig.16

DESCRIPTION

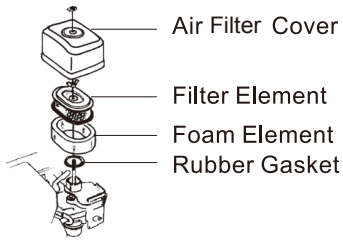


Fig.17

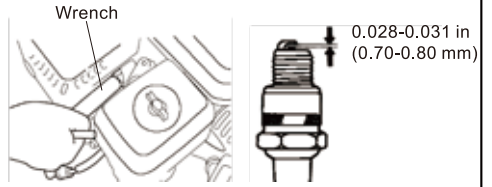


Fig.18

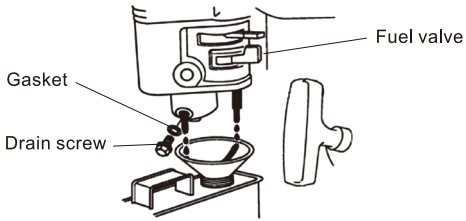


Fig.19

Important!

It is essential that you read the instructions in this manual before assembling, operating and maintaining the product.

Subject to technical modification.

GENERAL SAFETY WARNINGS

- **Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.
- **Know your product. Read operator's manual carefully.** Learn its applications and limitations, as well as the specific potential hazards related to the product. Following the rule will reduce the risk of electric shock, fire, or serious injury.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principals.** A careless action can cause severe injury within a fraction of a second.
- **Follow appliance manufacturer's instructions regarding operation and power.** Use of the appliance different from those intended could result in a hazardous situation.
- **Use the correct product for the application.**
- **Do not allow children to operate the product or play with the product as a toy.** Close attention is necessary when used near children.
- **To reduce the risk of personal injury and electric shock, the product should not be played with or placed where small children can reach it.**
- **The product is intended for household use only.**
- **Use the product only for its intended use as described in this manual.**
- **If the product is not working properly, has been dropped, damaged, left outdoors or dropped into water, return it to your nearest service centre.**
- **Only use attachments and accessories specified by the manufacturer.**
- **Do not put any objects in ventilation openings.** Do not use the product with any opening blocked. Keep openings free of dust, lint, hair and anything that may reduce air flow.
- **Stay alert, watch what you are doing and use common sense when operating the product.** Do not use while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention may result in serious personal injury.
- **Do not place product near any heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.**
- **Do not place the product near fire or heat; it may explode.**
- **Do not place the product in closed bookcases or racks without proper ventilation.** Allow a minimum distance of 5cm from any foreign object.
- **Risk of uncontrolled situations when used in ambient temperatures below 0°C (32°F) or above 40 °C (104°F).**
- **Keep the product dry, clean and free from oil and grease.** Always use a clean cloth when cleaning.

- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the product in unexpected situations.
- **When servicing the product, use only manufacturer's replacement parts, accessories and attachments.** Follow instructions in the Maintenance section of the manual. Use of unauthorised parts or failure to follow maintenance instructions may create a risk of shock or injury.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also **TRANSFER PUMP SAFETY WARNINGS**
- **Do not let the pump run dry.**
- **Do not remove hose while pump is still operating.**
- **Do not allow the product to run unattended.**
- **This pump is designed to transfer clean water. Never attempt using this pump to deliver dirty water or slurry, or any inflammable or corrosive liquids.**
- **Do not touch the hot muffler while the machine is working. Move the machine when it's stopped and cooled down.**
- **To prevent fire hazards, keep at least 1 meter of clearance on all sides of this machine during operation.**

SYMBOLS DEFINITION ON THE PRODUCT



Safety alert



Danger due to materials blown out of machine! Remove persons in the vicinity from the danger area. Keep bystanders away.



Regulatory Compliance Mark (RCM). Product meets applicable regulatory requirements.



Please read the instructions carefully before starting the machine.



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

PRE-STARTING OPERATION

IMPORTANT: Install the strainer on the end of the suction hose before operation. The strainer prevents foreign materials and protects the pump from block and component damages. (Fig. 1)

⚠ CAUTION

To start this water pump, please check the following before each use:

- Confirm that engine oil has been properly added.
- Confirm that unleaded petrol has been properly added.
- Confirm that water has been fully added in the pump housing. Dry running will damage the mechanical seal quickly.

NOTE: Please use oil pot to add engine oil to the crankcase when the crankcase is empty.

Checking oil level (The pump must not be in operation)

- Remove the oil dipstick and wipe it dry.
- Insert the dipstick into the oil filler (but don't screw it in) to check the oil level.
- If the existing oil level is found lower than or close to the lowermost position of the dipstick then replenish the crankcase with the recommended type of oil until the oil level comes up to uppermost position of the threaded hole.
- Insert the dipstick into the oil filler again and screw it in. (Fig. 2)

IMPORTANT: The Oil Shortage Alarm System is designed to avoid damage of the engine due to shortage of oil in the crankcase. The system will automatically shut down the engine just before the crankcase oil level drops down to the minimum line of safety.

Recommended oil type

10W-30 (Fig. 3)

- 4-stroke engine oil.
- Use a high quality detergent oil classified "For Service SE" or higher.
- Choose a viscosity according to the table in different areas and different seasons.

Checking fuel level

Uncap the fuel tank and check the fuel level while the machine is not in operation. Add unleaded petrol if the fuel level is found too low.

⚠ CAUTION

Do not allow the fuel to overflow the fuel tank. The maximum fuel level is shown as Fig.4. Wipe up any spilled unleaded petrol with a dry cloth immediately. It is recommended to use fresh, unleaded petrol with an octane rating of 91 Octane and above. Use of ethanol gasoline (more than 10% blended) is not allowed.

Checking and filling the pump with cooling water

The pump must be fully filled with priming water before it is put to operation. (Fig. 5)

STARTING THE ENGINE

⚠ CAUTION

Confirm that fresh engine oil has been properly added.

⚠ CAUTION

Confirm that unleaded petrol has been properly added in the fuel tank.

⚠ CAUTION

Confirm that water has been properly added in the pump.

1. Turn the fuel valve ON.(Fig. 6)

2. Close the choke lever. (Fig. 7)

NOTE: In case the engine is warm or ambient temperature is high, it's not necessary to close the choke lever.

3. Move the throttle lever from right (low speed) to left (high speed) to keep about 1/3 distance from the left (high speed). (Fig. 8)

4. Turn the engine switch to the ON position. (Fig. 9)

5. Pull the starter handle lightly until resistance is felt, and then pull it briskly. (Fig. 10)

⚠ CAUTION

Return the starter handle gently to the starter. Do not allow to snap back against the engine.

6. Move the choke lever gradually to the ON position after the engine warms up. (Fig. 11)

7. Move the throttle lever fully to the left (high speed). (Fig. 12)

STOP THE ENGINE

Please follow the steps below to stop the engine:

1). Move the throttle lever to the right end flow speed). (Fig. 13)

2). Turn the engine switch to the OFF position. (Fig. 14)

NOTE: Turn the engine switch to the OFF position immediately to shut down the engine in an emergency.

3). Turn the fuel valve OFF. (Fig. 15)

MAINTENANCE

Maintenance Schedule

REGULAR SERVICE PERIOD	Each time	20 Hrs or first month	50 Hrs or every 3 months	100 Hrs or every 6 months	300 Hrs or every year
Engine oil	Check level	○			
	Change	○		○	
Air cleaner element	Check	○			
	Clean		○(1)		
	Change				○*
Fuel sediment cup	Clean			○	
Spark plug	Clean			○	Change
Valve clearance	Readjust				○(2)
Fuel tank and fuel filter	Clean	Every 2 years (2)			
Fuel line	Change	Every 2 years (2) (between fuel tank and carburetor)			

Change paper filter element only.

1. Service more frequently when used in dusty areas.
2. These items should be serviced by an authorized dealer, unless the owner has the proper tools and is mechanically proficient.

Changing engine oil

Warm up the engine prior to draining the oil. This will assure a rapid and complete draining. Switch off the engine before draining the oil.

- 1) Remove the oil dipstick and the drain screw, then drain the oil.
- 2) Reinstall the drain screw and tighten it. (Fig. 16)

NOTE: Be sure to keep the environment clean when disposing used engine oil. We suggest you collect the waste oil in a container to be sent to a waste disposal site or a recycling service center instead of spilling it in the garbage or on the ground.

- 3). Place the engine in a level position and refill with recommended oil.
- 4). Reinstall the oil dipstick and tighten it.

Maintaining the air filter

A dirty air filter will restrict air flow to the carburetor and result in less pump power. Service the air filter periodically to prevent carburetor malfunctions. More frequent maintenance will be necessary if the pump is working in an extremely dirty environment.

CAUTION

Never run the pump without an air filter or with a damaged air filter. The dirt or dust if sucked into the engine may quicken engine wear.

- 1) Unscrew the wing nut and remove the air filter cover.
- 2) Unscrew the wing nut and remove filter element and foam element.
- 3) Separate filter element from foam element.
- 4) Replace the element if damaged. Replace the paper filter element in accordance with maintenance schedule. (Fig.17)

Cleaning filter element:

Slightly tap the filter element a few times, then blow it with compressed air (pressures 207 KPa) from inside. Do not clean the filter element with brush, which will block the air passages of the element.

Cleaning foam filter element:

Wash the element in hot water with detergent or in a non flammable or high flash point solvent. Let it dry thoroughly and immerse it into clean oil and then squeeze out the excess oil.

- 5) Clean the lower part of air filter, air filter cover and rubber gasket.
- 6) Combine the filter element and foam filter element.
- 7) Reinstall the air filter element and the cover.

Maintaining the spark plug

The recommended type of spark plug is F7RTC.

CAUTION

Take care not to touch the muffler due to high temperature on it's surface when the engine is running or has recently stopped.

- 1) Remove the plug cap.
- 2) Remove the spark plug with the wrench.
- 3) Visually check the spark plug. Discard it if the electrode or insulation ring is damaged or the insulator is broken or cracked. Check the plug gap with a feeler gauge. The gap should be 0.70 - 0.80 mm. Vary the gap by moving the side electrode if necessary.
- 4) Thread the plug in by hand to prevent cross-threading.
- 5) Tighten the spark plug with the wrench to compress the washer.
- 6) Reinstall plug cap. (Fig. 18)

TROUBLESHOOTING

The engine will not start:

1. Is there enough fuel?
2. Is the fuel valve ON?
3. Has the fuel reached the carburetor?

To check, remove the oil drain screw and turn the fuel valve on.

DANGER

Should there be a spill of fuel, be sure to clean it before checking the spark plug or starting the engine. Otherwise the spilled fuel or fuel vapor may get ignited.

4. Is the engine switch ON?
5. Is there enough engine oil or does the oil exceed the upper level?
6. Is the spark plug generating sparks?

Uninstall and check the spark plug, clear off the dirt from around the plug and dry it. Fit the spark plug into the plug cap. Replace the spark plug if necessary.

7. If the engine still refuses to start, contact an authorized dealer.

The pump does not pump water:

1. Is it filled with enough water?
2. Is the strainer clogged?
3. Is the hose clamp tightened?
4. Is the suction hose damaged?
5. Is the suction head too high?
6. If the pump still fails to work, contact an authorized dealer.

STORAGE

Let the pump cool down. Wait at least 30 minutes after it stops. Clean the pump and coat with rust-proof grease if necessary.

⚠ CAUTION

The cleaning water under pressure may go into air filter and muffler, or even go into cylinder which will result in corrosion damage.

Before storing the pump for over 14 days: (FIG. 19)

1. Make sure the storage area is free of moisture and dust.
2. Drain out the fuel.
 - a. Turn on the fuel valve and remove the drain screw. Drain the fuel into a suitable container.
 - b. Turn off the fuel valve and drain the fuel into a suitable container.
 - c. Reinstall the drain screw.
3. Reinstall the fuel cup and drain screw and tighten them.
4. Replace engine oil.
5. Remove the spark plug.
6. Pour one spoon of clean engine oil (5-10 ml) into cylinder.
7. Pull the starter cord to distribute the oil inside the cylinder.
- 8). Reinstall the spark plug.
- 9). Pull up the starter handle until a resistance is felt. In that case, both the inlet valve and outlet valve is closed to prevent corrosion inside the engine. Release the starter handle gently.
- 10). Cover up the pump to keep out dust.

SPECIFICATIONS

Motor	196cc 4-Stroke OHV
Max. Flow Rate	30,000L/hr
Max. Delivery Height	30m
Max. Suction Lift	5m
Fuel Tank Capacity	2.8L
Required Oil	10W-30
Net Weight	22.4kg



Imported by:

Techtronic Industries Australia Pty Ltd
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Melbourne, Australia

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Auckland 2013
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