VEVOR®

TOUGH TOOLS, HALF PRICE

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GASOLINE HIGH PRESSURE WASHER

MODEL:170D/180D

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NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

Please read and understand all instructions before use. Retain this manual for future reference.

GENERAL SAFETY INSTRUCTIONS

■ Read instructions carefully before operating this product.
■ Keep bystanders away.
■ This product is for outdoor use only.
■ Ensure the engine is stopped before adjusting,
cleaning or maintenance.
■ Always turn off the engine and water supply when finished.
■ Do not use the product if found to be damaged.
■ Only use detergents specified by the manufacturer. Other chemicals may compromise the safety of the product.
■ Do not direct the pressure jet towards mechanical parts containing lubricant grease.
■ Clean vehicle tires from a minimum of 50cm to avoid damage by the high-pressure jet.
■ Do not point high pressure jets at people, animals, live electrical parts or the product itself.
■ Do not use accessories such as hoses and connections that the manufacturer does not advise.
■ Engage the high pressure safety catch located on the gun when not in use.
■ Do not step/stand on the high pressure hose.
■ Ensure the nozzle is securely attached before using the Product. High-pressure can cause it to be fired from the lance with considerable force, and could cause injury damage.
■ Be ready for the kick-back force and the sudden torque on the spray assembly when operating the trigger.
■ A high pressure jet can remove paint and other surface finish. It can also damage tarmac and grouting.
■ Switch off completely when not attended.
■ The hose is designed specifically for operation with high pressures, lake care to

avoid damage that may prevent correct operation of the product.

■ This product is not to be used by children or anyone with reduced capabilities.

■ Always completely unwind the high-pressure hose before operation.

■ Make sure that the machine is switched off before unwinding the high-pressure hose, and take care not to pull the machine over.

■ Do not let the high-pressure hose contact the hot engine exhaust.

■ Do not use this product indoors.

■ Keep exhaust emissions away from air intakes.

EXPLANATION OF THE SYMBOLS ON THE APPLIANCE!

	Warning! Read the operating instructions before use!
	Warning! Do not inhale exhaust fumes!
	Attention! Hot surfaces! Risk of burns!
	Wear protective gloves!
	Wear safety shoes!
	Machine not suitable for connection to the potable water mains
	Wear hearing protection!
	Wear safety goggles!
	High-pressure jets can be dangerous if misused. Do not aim at people, animals, active electrical equipment or at the appliance itself.
	Regulate engine speed!

	Choke :open/close,petrol:on/off
	Forbidden to adjust pressure valve

TECHNICAL PARAMETERS

Model	170D	Model	170D
Pressure	3400psi	Fuel tank	3.0L
Max.flow	2.6GPM	Oil volume - engine	0.6L
Rated power	7HP	Self-pumping start time	1min
Engine speed	3600rpm	Suction height	1 m
Allowable temperature	0-60°C	Cut-out function at low oil level	Yes
Weight	approx. 26kg	Size(L*W*H)	650*520*895mm

Model	180D	Model	180D
Pressure	3600psi	Fuel tank	3.0L
Max.flow	2.6GPM	Oil volume - engine	0.6L
Rated power	7HP	Self-pumping start time	1min
Engine speed	3600rpm	Suction height	1 m
Allowable temperature	0-60°C	Cut-out function at low oil level	Yes
Weight	approx. 26kg	Size(L*W*H)	650*520*895mm

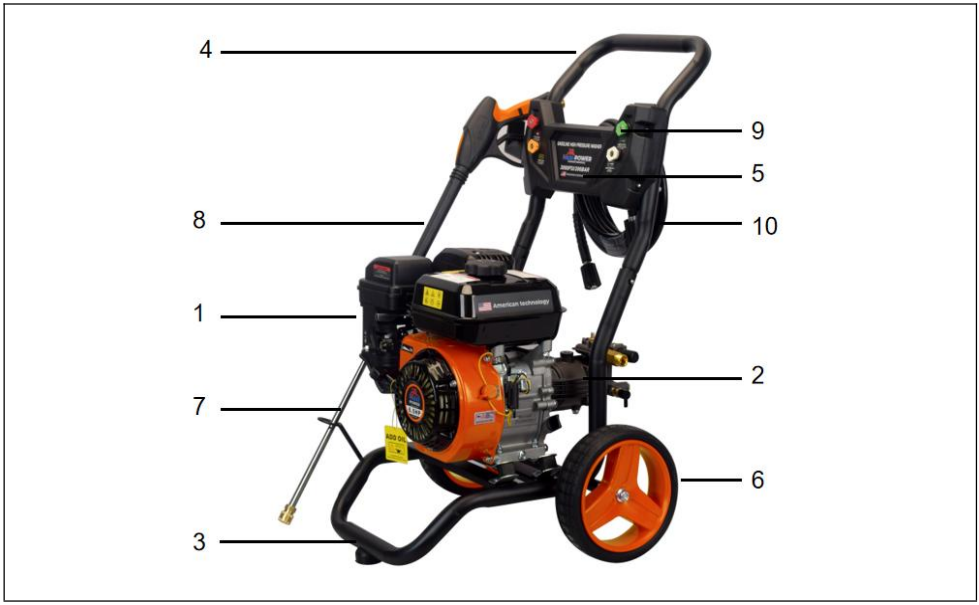
MAINTENANCE AND STORAGE

■ Do not attempt to modify the product in any way.

■ To ensure good operating conditions arrange regular servicing from an authorising agent.

■ Only use replacement parts supplied by the manufacturer
■ Only use fresh,clean and good quality fuel in the engine.
■ Never operate the engine without oil.
■ Never refuel close to naked flames, sparks,or other ignition sources, e.g., cigarettes.
■ Do not refuel when the engine is hot.
■ Wipe up and correctly dispose of fuel spillage immediately with a suitable medium.
■ Move away from the refueling areas before restarting the engine. Store fuel for short periods only in a suitable container away from heat and direct sunlight.
■ Clean the pressure washer thoroughly after each use.
■ Regularly check external nuts and fixings to ensure vibration caused by normal use has not begun loosen them. Remove the spark plug ignition lead from the back of the spark plug and position the lead to avoid accidental reconnection.
■ Store the machine in a secure dry location out of reach of children.
■ Empty the fuel tank before storage.

GETTING TO KNOW YOUR PETROL PRESSURE WASHER



1.Engine 2.Pump 3.Lower frame 4.Handle 5.Panel 6.Wheel
7.Lance 8.Hand spray gun 9.Nozzle 10.Hose

ASSEMBLY

NOTE: Every machine is tested during production, so there may a few drops of water inside the pump assembly.

HOW TO SET UP YOUR UNIT

Step 1 Install the panel on the upper frame	Step 2 Install the hook for hose.
	
Step 3 Assemble the wheel on the axle and fix it with a nut.	
	

Step 4 Attach the lance to gun

A. Attach the lance to gun

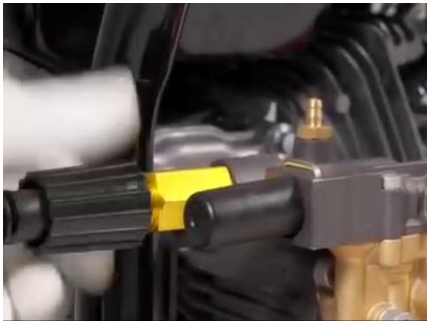
Note: When attaching, align the two projections on the lance with the grooves on the gun.

B. Attach the nozzle to the spray lance.

Step 4 CONNECTING THE HOSE :

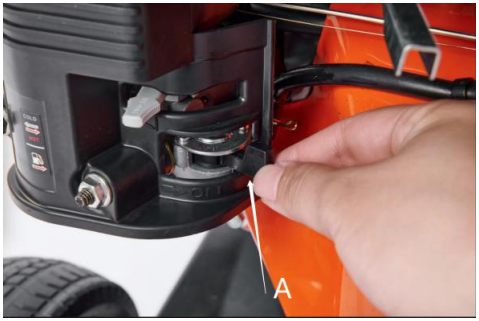
Connect the hose to the water inlet connector(MAX.20PSI, max. temperature 60° C) and turn the water on completely.

Connect the high pressure hose A to the high pressure outlet.

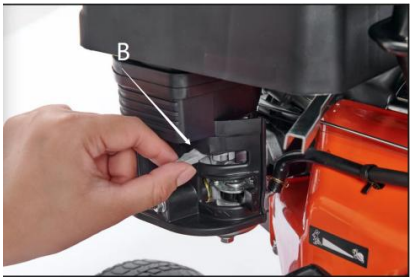


Step 5 Add oil and gasoline

Step 6 STARTING THE ENGINE



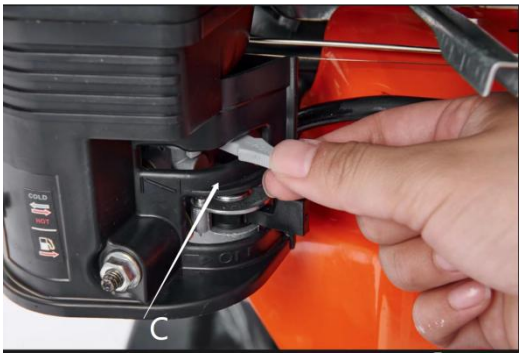
Push the fuel lever A to the right (On position)..



Push the choke lever B to the left; Close the choke for initial start-up. NOTE: Do not use the choke if the engine or air temperature is warm.

Turn the engine switch clockwise to the ON position.

Pull the black starting rope handle gradually until you feel resistance; then make a rapid pull. NOTE: Return the starting rope handle



Let the engine idle for a short while preheating before pushing the choke lever C to the right.

How to connect Garden hose？

Step 1: Unscrew the quick connector

Step 2: connect the garden hose	

OPERATION AND USE

WARNING: The engine is not filled with oil. It is necessary to fill the unit before starting the engine. The engine will not produce a spark unless sufficient oil is inside.

CAUTION: Do not run the engine with high or low oil levels, as this can cause engine damage.

CAUTION: Only use unleaded gasoline.

CAUTION: Avoid damaging your hose by ensuring it does not touch the hot exhaust during and after use.

CAUTION: Avoid damaging your pump by ensuring the water supply is clean and free of any foreign objects.

CAUTION: Inlet water temperature must not exceed 40 C and 20PSI.

CAUTION: Never let the appliance operate for more than 2 minutes with the spray gun in the closed position.

CAUTION: Never operate the pressure washer with repeated and rapid on and off movements of the trigger.

WATER SUPPLY FROM THE WATER MAIN

■ Connect a water supply hose (not supplied) to the water inlet connection of the

pressure washer.

■ Machine is not suitable for connection to the potable water mains.

■ Turn on the water supply and pull the trigger until water. is continually flowing out of the nozzle.

WATER SUPPLIER FROM A CONTAINER

■ Unscrew the coupling part for the water inlet

■ Screw the suction hose with filter (not included) onto the water connection of the unit.

■ Hang the filter in the container.

■ Vent the unit before operation.

■ Unscrew the high pressure line at the high pressure outlet of the unit.

■ Switch on the unit and let it run until water is free of bubbles at the high pressure outlet.

■ Switch off the unit and screw on the high pressure hose again.

SAFETY INSTRUCTIONS FOR THE WASHER

1. Before operating the engine, be sure to read all instructions carefully as injury or permanent damage to equipment may occur.

2. Run the engine in a well ventilated area.

3.Ensure the appliance is at least one meter from from building walls or other equipment.

4.Not to be used in explosive environment, keep the appliance away from flammable liquids such as petrol.

5.Refuel in a well ventilated area with the engine switched off and avoid sparks or

naked flames.
6.When refueling, ensure you do not overfill the fuel tank.
7.If any fuel is spilled ensure it is deaned up thoroughly before restarting.
8.Ensure the fuel cap Is located securely.

9. The exhaust mufflers, engine case, pump get very hot and will remain hot for some time after the engine is switched off.
10.Ensure the appliance is cooled before transporting or storing.

11. Sound pressure level:94dB; Sound power level:109dB.

wear ear protection to prevent hearing damage!
12.High-pressure jets can be dangerous if misused. Do not aim at people, animals,

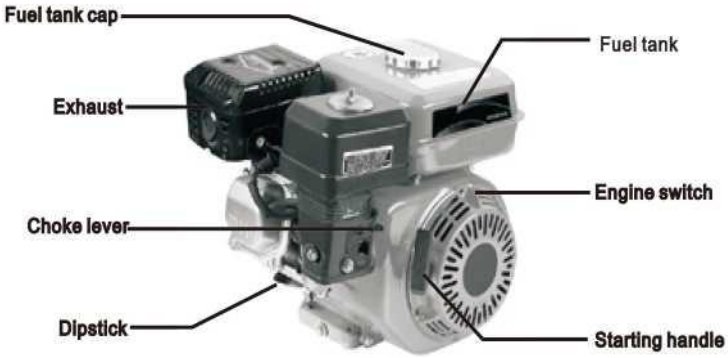
active electrical equipment or at the appliance itself. .)

Wear protective gloves! Wear safety shoes! safety goggles!

13. Forbidden to adjust pressure valve, Otherwise it will cause pump damage.

14. 60 degrees hot water will be ejected from thermal relief valve before water gun closed for about 1 minute. Careful burns.
15.WARNING Do not use the machine within range of persons unless they wear protective clothing.

16.WARNING Do not direct the jet against yourself or others in order to clean clothes or foot-wear
17.WARNING Risk of explosion — Do not spray flammable liquids.
18.WARNING High pressure hoses, fittings and couplings are important for the safety of the machine. Use only hoses, fittings and couplings recommended by the manufacturer.
19.WARNING lb ensure machine safety, use only original spare parts from the manufacturer or approved by the manufacturer.
20.WARNING Water that has flowed through backflow preventers is considered to be nonpotable.



PRE-OPERATION INSPECTION

CAUTION: Engine oil is a key factor in deciding the engine s performance. Do not use engine oil with additives or 2-stroke gasoline engine oil, as they do not have enough lubricating properties, which may shorten the engine s service life.
1. Check the engine is on level ground.
2.0.6L 15W-30 is recommended for general all-temperature use. (FIG. 1)
3.Remove the dipstick and clean it.
4.Reinsert the dipstick into the oil filler without screwing it in and check the oil level.
5.If the oil level is too low add the required engine oil to the oil filler mark.
6.Replace the dipstick securely.
CAUTION: Running with insufficient engine oil may damage the engine severely.

FIG. 1

FUEL AND FUEL TANK:

Only use unleaded petrol or fuel with an octane number over 86. Using unleaded gasoline or fuel will decrease the possibility of producing carbon deposit and prolong the engine's service life. Never use old or polluted petrol or fuel or a mixture of petrol and engine oil. Make sure the fuel is free of dirt and water.

CAUTION:

Handle fuel with care because it can damage plastic and painted surfaces.Remove the fuel filler cap and check the fuel level. If the fuel lever is too low, refuel the tank. Remember, do not fill over the fuel filter shoulder when adding fuel.

WARNING:

Petrol is extremely flammable and is explosive under certain conditions. Refuel in a well ventilated area with the engine stopped. Do not smoke or allow flames and sparks in the area where petrol is stored or where the fuel tank is refuelled. After refueling; make sure the fuel cap is returned securely.Be careful not to spill fuel when refuelling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled,ensure the area is dry before starting the engine.

FUEL TANK FILTER (Fig.2):

After every 150 hours of running or every three months the fuel tank filter should be removed and cleaned. Remove the fuel tank filler cap and the filter, clean the filter thoroughly using environmentally friendly water based degreasing agent and re-fit.

OIL LEVEL SWITCH:

The engine oil alarm is designed to prevent the operator from starting the engine

when the oil in the crankcase is insufficient Running with insufficient oil will damage the engine. Once the oil level in the crankcase is too low, the engine oil alarm will stall the engine automatically to avoid damage while the engine switch is still ON.

FIG. 2

FIG. 3

AIR FILTER (Fig3):

After every 100 hours of running or every month, the air filter should be removed, examined for deterioration, and deaned. Clean the air filter thoroughly using an environmentally friendly water-based degreasing agent Allow to dry thoroughly；then replace the air filter. Only run the engine with the air filter fitted.

STORAGE:

If the engine is not to be used or is to be stored for more than one month the following storage procedure should be carried out

1.Drain all the fuel from the fuel tank and the carburetor ensure that all the fuel has been removed.

2.Remove the spark plug and pour approximately one tablespoon full of clean engine oil into the spark plug hole.

3.With the ignition turned OFF gently pull on the recoil starter cord several times.

4.Re-fit the spark plug and continue to pull the recoil starter cord until the piston is on the compression stroke (when resistance is felt) then stop pulling.

5.Store the pressure washer in a dry well ventilated place under a cover to prevent any dust or debris from accumulating on the pressure washer.

WINTER AND LONG TERM STORAGE:

If the pressure washer is not to be used for more than 3 months or if there is a danger of ice or frost during winter months the pump unit will require protection to

prevent seizing and damage caused by freezing.

MAINTENANCE

EXHAUST CONTROL SYSTEM

With the engine running, carbon monoxide, nitrogen oxide and hydrocarbon are produced, and in certain conditions nitrogen oxide and hydrocarbon will react together to make smoke while carbon monoxide is toxic, so exhaust control is very important. The manufacturer decreases exhaust emissions by introducing poor-fuel carburetors and other devices to solve the problem. To keep the exhaust of your engine within the standard exhaust emission values, pay attention to the following:

MAINTENANCE

Maintain the engine periodically following the maintenance schedule. The maintenance schedule is made out on the basis of normal use in normal conditions. For example, more frequent maintenance will be necessary if used under heavy loads, dusty or wet conditions, or in high temperatures.

REPLACEMENT OF PARTS

We recommend you use parts supplied by the manufacturer or equivalent quality parts. Replacement parts of inferior quality may impair the effectiveness of the exhaust control system.

MODIFYING

Modifying the exhaust control system may make exhaust emissions exceed statutory limits. Illegal modifications are:

1.Dismantling or modifying any part of the air inlet or outlet system.

2.Modifying or removing speed adjustment controls or connections which may result in the engine running outside its set parameters.

PROBLEMS AFFECTING EXHAUST EMISSIONS

1.Difficulty in starting or stopping.
2.Erratic idling.
3.Giving off black smoke or excessive fuel consumption.
4.Poor ignition spark or no spark.
5.Ignition too advanced. If you have any of these above problems please contact your dealer.

CAUTION:

Before carrying out any maintenance to the machine release any pressure and remove the water connection.

WATER SUCTION FILTER CHECKING

Check periodically in order to avoid deposits clogging it.

SPARK PLUG MAINTENANCE

After every 50 hours clean the spark plug with a brush. If the insulator on the spark plug is damaged replace it immediately. Check the spark plug gap with a feeler gauge, the gap should be 0.7 - 0.8mm. If adjustment is necessary bend the side electrode carefully. Check the spark plug gasket is in good condition or replace it with a new one. Screw the spark plug to the bottom by hand and then tighten it using a spark plug wrench.

If a new spark plug is used, twist a 1/2 more turn after impacting the gasket. If using the original one twist 1/8 -1/4 more turn.

CAUTION:

The spark plug eliminator should be serviced at least once every 100 hours of operation so as to keep it in good condition.

WARNING:

The muffler is very hot while running the engine and for a prolonged period after stopping. Only service after the engine cools down completely.

Unscrew two nuts and remove the exhaust elbow from the engine body.

Unscrew five screws from the muffler guard and take it out.

Unscrew the spark plug eliminator and separate the muffler.

Clean the spark eliminator mesh with a wire brush.

Reinstall the spark eliminator in reverse order of removal.

CAUTION:

Be careful not to damage the spark eliminator. Never use a damaged spark eliminator.

CARBURETTOR IDLING ADJUSTMENT:

Start and pre-heat the engine until it reaches normal working temperature. Obtain standard idling by adjusting the throttle fixing screw under the engine, Standard idling: 3400 ±300rpm.

TRANSPORT

Transport with the fuel switch in the off position. Ensure the engine is cooled to avoid the risk of burns or fire.

CAUTION:

Do not tilt the engine to avoid spilling fuel. Spilled fuel or fuel vapor may ignite.

STORAGE

If the engine is not to be used for a long period of time ensure it is stored correctly. Make sure the storage area is dry and free of dust.

PREPARE FOR STORAGE

Disconnect the spark plug. Put a spoonful of fresh engine oil into the cylinder and rotate the engine to distribute the oil evenly. Replace the spark plug. Pull the starting rope until you feel resistance and then keep pulling to align the arrow of the starting sleeve with the hole of the starter: This will close both the inlet and outlet valves to help prevent the engine from rusting inside.Cover the engine to

keep it free of dust.

REMOVAL FROM STORAGE

Before re-using, service the engine the instructions in the following table.

following

STORAGE TIME	SERVICE ITEM
Within one month	No service needed.
One - Two months	Drain out original fuel of the fuel tank and refuel.
Two months - One year	Drain out original fuel of the fuel tank and refuel.
	Drain out the fuel in the carburettor 1.
	Empty the deposit cup 2.
Above One year	Drain out original fuel of the fuel tank and refuel.
	Drain out the fuel in the carburettor 1.
	Empty the deposit cup 2.
	Move the engine from the storage place, and start up.

1.Unscrew the drain plug and drain out the fuel in the carburetor

2.Turn off the engine switch first, disconnect the deposit cup and empty it.

NOTE:

Do not dump oil containers or discarded engine oil into the ground. For environmental protection take discarded engine oil in a closed container to a

recycling station.

WARNING:

Fuel is highly flammable and explosive under certain conditions. Keep cigarettes, naked flames and sparks away from operating site.

To keep the engine in sound condition, the user should maintain it according to the table below.

CAUTION:

Use parts that the manufacturer supplies; otherwise, damage to the engine may occur.

WARNING:

Stop the engine before servicing. If servicing is required with the engine running, ensure there is good ventilation in the area. Exhaust emissions contain toxic carbon monoxide which may cause injury or be fatal if inhaled. ENGINE OIL

REPLACEMENT

Place the machine on a level surface and warm up the engine for several minutes. Then stop the engine. Remove the oil filler cap.

Place an oil pan under the engine. Remove the oil drain plug so that the oil can be completely drained. You will need to use a tube or other similar device to prevent the oil from leaking onto the frame of the pressure washer.

Check the oil drain plug, gasket oil filler cap, and O-ring; if damaged, replace them. Reinstall the oil drain plug.

Add engine oil up to the upper level of the dipstick.

NOTE:

Do not dump oil containers or discard engine oil into rubbish boxes or into the ground. For environmental protection take discarded engine oil in a closed container to a recycling station.

NOTES:

* Only for inside ventilating double-core carburetors.

**Only for paper core air cleaners.

I.More often than in schedule if used in dusty conditions

2.Items to be done by dealer unless you are fully trained and equipped to do so

.

Item		Each time	First month or 20 hours	Each month or 50 hours	Each 6 months or 100 hours	Each year or 300 hours
Engine oil	Oil level check	√				
	Replace		√		√	
Reduction gear oil	Oil level check	√				
	Replace		√			
Clean	Check	√				
	Air cleaner			*√1*	*√1**	
	Replace					*√***
Deposit cup	Clean				√	
Spark plug	Clean, adjust				√	
	Replace					√
Spark eliminator	Clean				√	
Idling	Clean, adjust					*√2*
Valve clearance	Clean, adjust					*√2*
Fuel tank & fuel filter	Clean					*√2*
Fuel supply line	Check					

PUMP NOTICE

1 .For the convenience of transport, Pump without machine oil, and breather plug is not installed. Please add

15W/40 or 30 machine oil before using. Machine oil quantity is subject to slightly not too oil lens center line, then install the breather plug.

2.After using 20 hours of the new machine, pour the machine oil out, and add the appropriate amount of kerosene, fuel is according to standard a little than oil lens

center line. Operate the pump without load in 10-15 seconds, then close the machine and pour out the kerosene,and add the new oil.

3.Please check the oil mass before using .If the oil level is less than 1/2 oil lens , it needs to add the oil to the oil lens center line.
Accumulative use after 100 hours , change the oil similarly. And every 100 hours to change the oil . It's very important to Extend the service life of the pump.

TROUBLESHOOTING PUMP TROUBLESHOOTING

TROUBLE	PROBABLE CAUSE	REMEDY
Fluctuating pressure	Pump sucking in air	Check connections are tight
	Valves dirty, worn out or seize	contact customer helpline
	Blocked jet	Remove blockage using jet cleaning tool
Water leakage from pump	Seals wore	Contact customer helpline
The pump does not reach the required pressure	Pump sucking in air from connections or hose	Check tightness of all connections
	Suction/delivery valves are clogged	Clear or replace valves. Have machine checked by Service Centre
	Unload valves are stuck	Loosen and re-tighten regulating screw
	Lance or nozzle is worn	Check and/or replace
Pump is running but no water delivery	Kinked inlet and or pressure hose	Check, straighten and replace if required

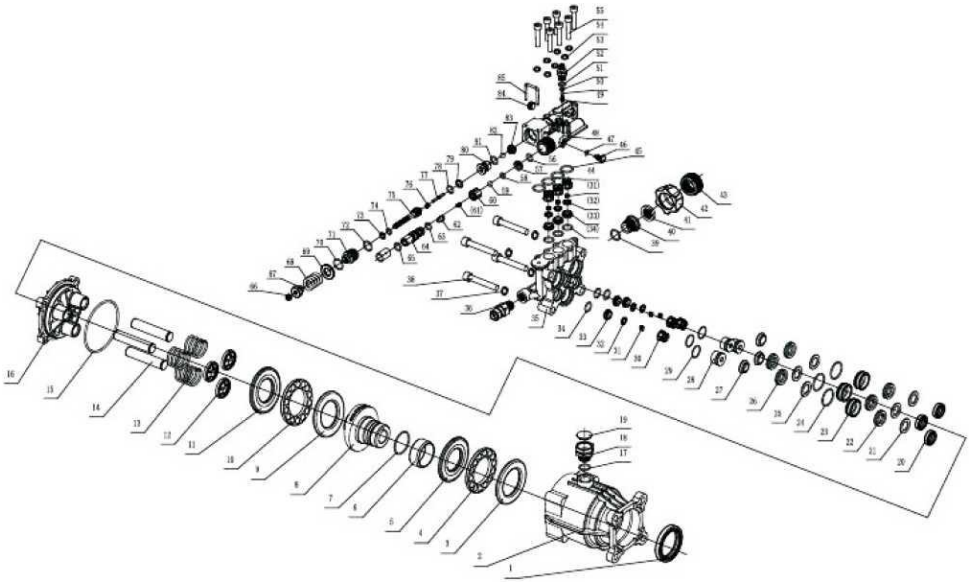
	Blocked inlet filter	Remove and clean filter
	Blocked jet	Remove blockage using the jet cleaning tool

ENGINE TROUBLESHOOTING

FAULT		PROBABLE CAUSE			REPAIR
Engine won't start Low engine output Engine runs erratically	Insufficient compression	Loose spark plug			Tighten plug
		Loose cylinder head bolt			Tighten bolt
		Damaged gasket			Replace gasket
	Sufficient compression	**FUEL SYSTEM PROBLEMS**			
		No fuel supplied to combustion chamber	Insufficient pulling speed for starting rope		Pull rope sharply
			Foreign matter in fuel tank		Clean tank
			Clogged fuel line		Clean fuel line with dealers advice
			No fuel in tank		Supply fuel
			Fuel tap not open		Open tap
		FUEL SYSTEM PROBLEMS			
		Combustion chamber supplied with fuel	Poor spark	Spark plug dirty with carbon or wet with fuel	Remove carbon or dry spark plug
				Damaged spark plug	Replace spark plug
				Faulty magneto	Consult dealer
			Good spark	Improper adjustment of carburetor	
				Insufficient pulling speed for starting rope	Pull rope sharply

		Wrong grade of fuel used	Check grade of fuel
		Overloaded	Check the working conditions
		Overheating	

PUMP PARTS DRAWING



No	name	QTY	No	name	QTY	No	name	QTY
1	oil seal	1	30	valve plank	3	59	ball	1
2	flange plate	1	31	valve spring	6	60	valve seat	1
3	51108-F bearing(loose)	1	32	valve washer	6	61	spring	1
4	51109-F bearing	1	33	valve base	6	62	nozzle	1
5	51110-F bearing(close)	1	34	O-ring	6	63	O-ring	1
6	steel lagging	1	35	pump head	1	64	nipple	1

7	O-ring	1	36	temperature control valve	1	65	O-ring	1
8	cam	1	37	oil cap washer	4	66	nut	1
9	51108-E(loose)	1	38	screw	4	67	nut	1
10	51109-E bearing	1	39	O-ring	i	68	spring	1
11	51110-E(close)	1	40	inlet pipe	1	69	washer	1
12	spring plate	3	41	gasket	1	70	O-ring	1
13	piston spring	3	42	ring nut	1	71	vale cap	1
14	piston	3	43	ring nut	1	72	O-ring	1
15	O-ring	1	44	valve plank	3	73	uncork ring 1	1
16	pump crankcase	1	45	O-ring	4	74	O-ring	1
17	O-ring	1	46	plug2	1	75	valve	1
18	oil plug seat	1	47	O-ring	1	76	valve spring	1
19	oil plug cover	1	48	pump body	1	77	pin	1
20	oil seal	3	49	spring	1	78	O-ring	1
21	assistant water seal mat	3	50	ball	1	79	uncork ring 2	1
22	assistant water seal	3	51	O-ring	1	80	top seat	1
23	pilot seat	3	52	O-ring	1	81	O-ring	1
24	O-ring	3	53	connector	1	82	ball	1
25	main water seal mat	3	54	oil cap washer	7	83	base	1
26	main water seal	3	55	screw	7	84	Plug1	1
27	water seal washer	3	56	O-ring	1	85	u-plug	1
28	bilging valve bonnet	3	57	valve	1	86		
29	O-ring	3	58	O-ring	1	87		

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