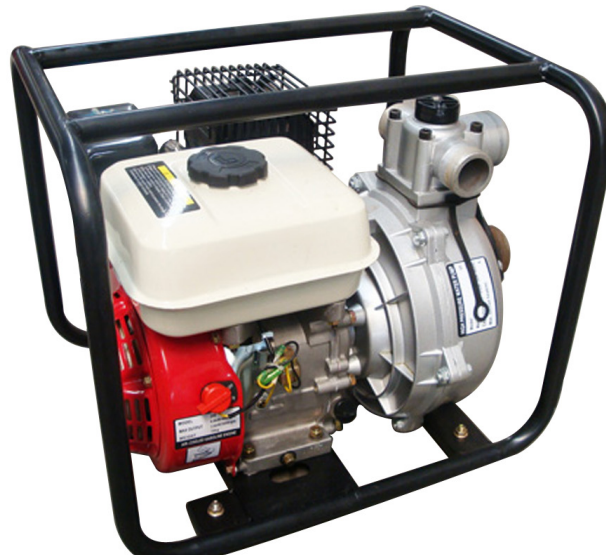
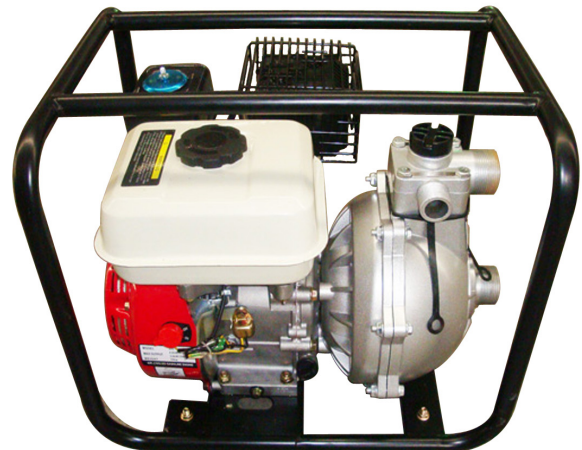


## GASOLINE WATER PUMP FIGURE



## GASOLINE H



## INTRODUCTION

Thank you for purchasing the products of our company.

Our company's Gasoline Water (High Pressure) Pump applies the high quality self-priming pump.

The engine is air-cooled, direct injection, 4-stroke, gasoline engine or air-cooled, single cylinder, 4-stroke gasoline engine. It possesses many good features such as: small in dimensions, light weight, simple structure, convenient to use etc. It is an ideal tool of irrigation and drainage.

Our company's Water (High Pressure) Pump series widely serve agriculture field, industrial and fire fighting, construction, fishery, garden etc.

The operation manual tells you how to operate and maintain your new Water (High pressure) Pump. Please read it before use to ensure the proper handling and operation. Follow the introduction carefully to keep your machine in the best running condition, which is helpful to prolong the lift span of the Water (High pressure) Pump.

With the improvement of our products, the descriptions of this manual may differ from practical products. So user should pay attention to it.

**Intended Use / not intended Use:**

The maximum suction moments, and the flow rate in liters This Gasoline engine-powered water pump is designed exclusively for pumping clean water for the agriculture, forestry or garden area. The maximum suction moments, and the flow rate in liters per minute can be find on the chapter main technical characteristics. These specifications must be observed during the operation.

Before each use, this manual is carefully read and comply with all safety instructions are listed. Only the original respectively accessories that are approved by the manufacturer of the engine / pump can be used.

When using not original or not released accessories, resultant persons, property damage is the operator's liability and not the manufacturer's.

This gasoline-powered water pump should be operated only in the open garden-agriculture sector.

Any other use / use as o.g. is not as intended use. It should be pumped no flammable liquids.

**Residual risks**

Even when properly used the machine is always some residual risk that can not be ruled out. Because of o.g. Use, construction of the machine can be derived during the use if the following potential hazards.

- Inhalation of fumes (poisoning danger)
- Avoid contact with hot surfaces / exhaust system (burns)
- Impairment of hearing for non-adherence to the prescribed hearing protection
- Contact with petrol / oil and the skin
- Inhalation of gasoline fumes
- Contact with the coming-promoting medium

Gasoline Water Pump Overall Figure.....(1)  
 Gasoline High Pressure Pump Overall Figure.....(1)  
**CHAPTER 1 MAIN TECHNICAL SPECIFICATIONS AND PARAMETER**  
 1. Gasoline Water Pump specifications and parameter .....(3)  
 2. Gasoline High Pressure Pump specifications and parameter.....(4)  
 3. Model Name Identification.....(5)  
**CHAPTER 2 MAIN STRUCTURE AND USE**  
 1. Main Structure.....(6)  
 2. Main points of use..... (6)  
 3. Procedure of use.....(6)  
 4. Caution.....(7)  
 5. Use and maintenance.....(7)  
 6. Installation of connective soft pipe.....(9)  
**CHAPTER 3 ANALYSIS OF MALFUNCTION AND REMEDY....(10)**  
**CHAPTER 4 SPARE PARTS LIST**  
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 2. Part list of 1.5 inch (F40) high Pressure Pump.....(14)  
 3. Part list of 2 inch(F50) high pressure pump.....(15)  
 4. Parts list of 2 inch(P50) self-priming pump..... (16)  
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 6. Parts list of 4 inch(P100) self-priming pump..... (18)

**CHAPTER 1 MAIN TECHNICAL SPECIFICATIONS AND PARAMETER**

1. Gasoline Water Pump specifications and parameter

Self-priming water pump	TYPE	P40C	P50C	P80C	P100C
	Suction port dia(mm)	40(1.5inch)	50(2inch)	80(3inch)	100(4inch)
	Rated displacement (m <sup>3</sup> /h)	12	21	50	85
	max.head(m)	22	26	25	25
	Self-priming time(s/4m)	80	70	120	180
	max.suction head (m)	6	8	8	8
Engine	Model	154P	160P	160P	270P
	Rated power(kw/rpm)	1.38/3000	2.76/3000	2.76/3000	4.6/3000
	Displacement(CC)	87	163	163	242
	Fuel tank capacity(L)	1.7	3.6	3.6	6.0
Unit	G.W.(kg)	12	24	25	41.7
	Outline	435X330X315	475X375X375	510X375X435	610X480X535

Original Instructions

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	dimensions (L×W×H)(mm)			
--	---------------------------	--	--	--

Model:	P50C, P80C, P100C, F40C, F40C-2, F50C
Measure sound pressure level:	86,06dB (A)
Guaranted sound power level:	105dB(A)
Uncertainty K	3,0dB(A)

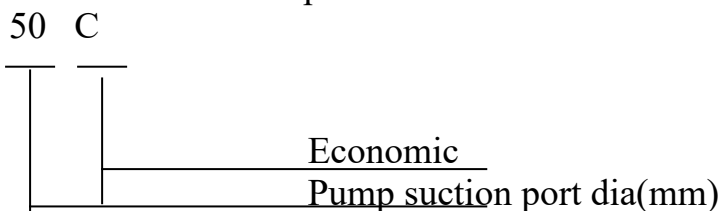
2.

High Pressure Pump specifications and parameter

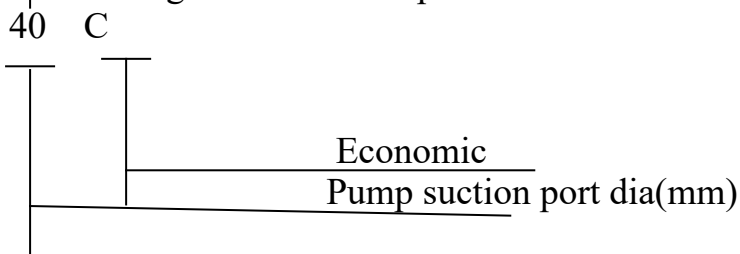
Gasoline

High	TYPE	F40C(L)	F40C(L)-2	F50C(L)
	Suction port dia(mm)	40	40	50
Discharge port dia(mm)	25x2;40x1		50x1	
Capacity(m <sup>3</sup> /hr)	17(at 35 m Head)	15(at50 m Head)	23(at 30m Head)	
Max.head(m)	55	110	55	
Self-priming time(S/4m)	30	30	30	
Max.suction head(m)	6.0	6.0	6.0	
Engine	Model	200P		
	Rated power(kw)	3.66		
	Displacement(cc)	196		
	Fuel tank capacity(1)	3.6		
Unit	Gross weight(kg)	23	24.2	26.5
	Outline dimension (LxWxH)(mm)	490x400x422(L:570x470x535)		
High	TYPE	F80C		
	Suction port dia(mm)	80		
	Discharge port dia(mm)	80×1		
	Capacity(m <sup>3</sup> /hr)	40		
	Max.head(m)	80		
	Self-priming time(S/4m)	30		
	Max.suction head(m)	65		
Engine	Model	390		
	Rated power(kw)	7.3		
	Displacement(cc)	389		
	Fuel tank capacity(1)	6.0		
Unit	Gross weight(kg)	52		
	Outline dimension (LxWxH)(mm)	610*4 80*53 5		

(1) Gasoline Water Pump



(2) Gasoline High Pressure Pump



CHAPTER 2 MAIN STRUCTURE AND USE

1. Main Structure.

Water Pump and High Pressure Pump consists of Gasoline engine and pump kit. The pump is fixed on a frame with shock absorbers.

The self-priming pump consists of pump body, pump cover, flow guidance, impeller and seals, etc. Shaft sealing is machinery type sealing and the inlet of pump is higher than the inlet of impeller so that it can self prime and you only need to fill water into the body of the pump. The inlet of pump is fixed with a one-way valve to prevent liquid from being drained into water pool from the pump body by siphon after stopping the machine. It must guarantee store enough liquid in the pump body for next start.

The self-priming pump's flow guidance and impeller are made from high strength cast iron, high pressure pump's flow guidance and impeller are made from high quality die casting of aluminum alloy. To meet different use, high-pressure pump can equip with different accessories.

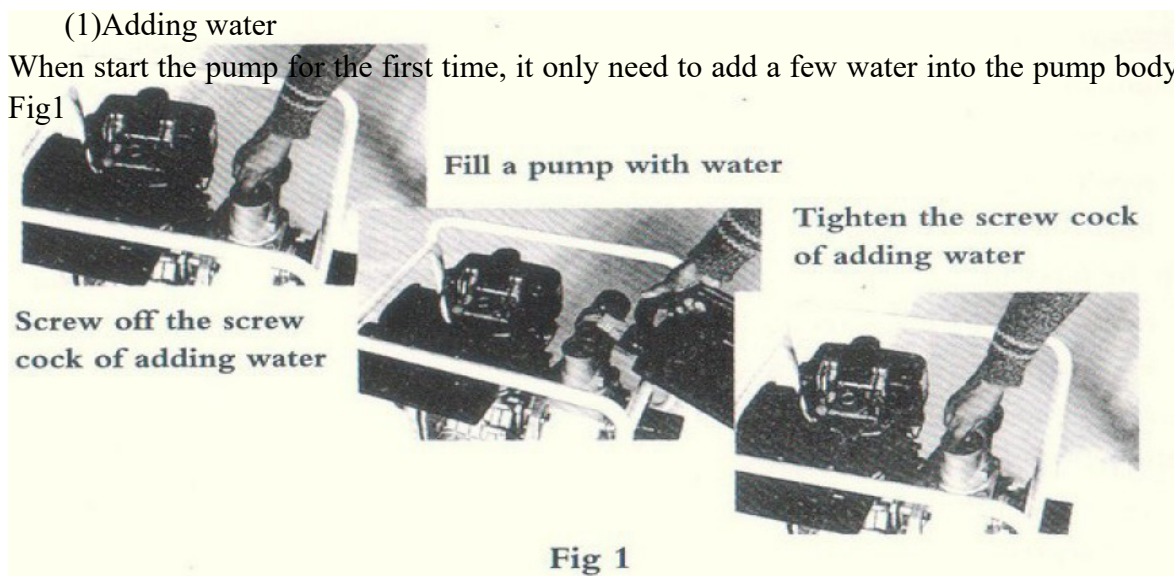
2. Main point of use

- (1) The coupling of suction pipe to the pump must be tight, reliable without any leakage.
- (2) A filter net must be added into the inlet of suction pipe as a protection to avoid impurity be sucked into the pump and stick or damage the impeller.
- (3) Prime the pump until the water overflow.
- (4) Do not run it at high speed unless you prime it.
- (5) Drain off the pump for storage

3. Procedure of use

(1) Adding water

When start the pump for the first time, it only need to add a few water into the pump body. Please see Fig1



## (2) Start the engine

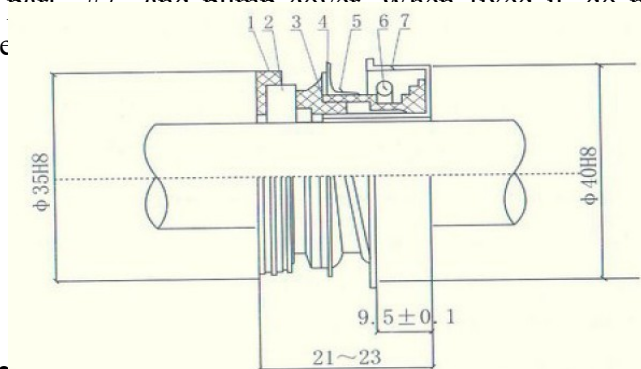
Please refer to manual of engine.

## 4. Caution

- (1) The fuel of the pump is Gasoline fuel , not allow mixing of them. Keep fire and other explosives and inflammables away from the pump. Operate the pump on a level surface to prevent fuel spilling.
- (2) Keep the fuel clean. The fuel must be filtered or settled for 24 hours before used. Do not add fuel into fuel tank or crank case when the machine is running.
- (3) Exhaust gas contains poisonous carbon monoxide. Never use the machine in poorly ventilated locations, so that people and cattle will not be affected.
- (4) Do not touch muffler and muffler cover while the machine is running or hot.
- (5) Run new or newly maintained machine at low speed with low load for the first 20 hours of test period. Do not run it at high speed with full load.

## 5. Use and Maintenance

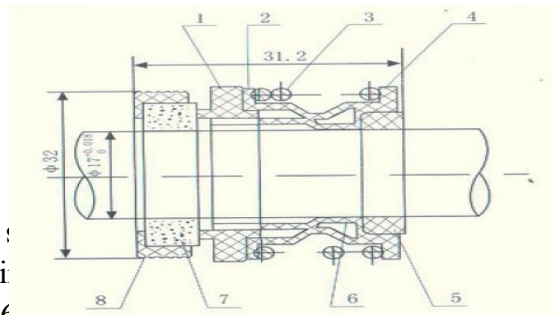
- (1) Theoretically, air pressure and the suction head of pump will decrease with the altitude increasing. The value of decrease can be estimated by minus local atmosphere value from 10m(metre water column).
- (2) Short and straight pipe is preferred as it can reduce unnecessary loss of pipeline. The pipeline must be supported to avoid from vibrating and damaging the pump by oppressive. Before operation you must check connection part between pump and pipeline whether there is loose phenomenon and pay special attention to leakage of inlet pipeline.
- (3) The filter net must keep a certain distance between river surface, river bottom and river bank ,the net must dip into water not less than 0.3m to avoid suction air and to keep a distance which is not less than 1.2m from river bottom, river bank to avoid suction stone or weeds.
- (4) When the pump is used in winter, to screw off the drain cock under the pump and draw off water thoroughly after stopping the machine to prevent from being broken by ice of freeze.
- (5) If the gap between impeller and the surface of flow guidance is over 1mm, so that it can be continuous to be used after adding an adjustment shim on the shaft shoulder.
- (6) When change self-priming pumps machinery seal, be sure to apply adhesive to the connection between steel part “47” and pump cover. When fixed it do not hit by force to prevent wear slice fracture. Please



**Fig 2 structure diagram of machinery seal**

1. seal ring 2. ceramics moving ring 3. graphite static ring 4. corrugated pipe 5. washer 6. spring 7. steel part

- (7) According to High Pressure Pump, the clearance between impeller and regulator is 1mm, when remove or install, can adjust the clearance through adding or reduce the gasket in long shaft screw.
- (8) When change machinery seal, silent ring set (NO.7、8)install in the pump cover, movable ring set(NO.1-6)install in the diesel output shaft. Do not knock heavily when installing to prevent breaking the grind piece. See Fig3



**Fig 3 :**

1. graphite moving ring
2. spring
3. ceramic static ring
4. assistant seal
5. moving ring seal
6. bottom seal
7. ceramic static ring
8. moving ring seal

6. Installation of connective soft pipe

Set the rubber soft pipe on the connector of inlet pipe. Pay attention to, it must be seted over the thread, and then tighten it with clipper joint.

**CHAPTER 3 ANALYSIS OF MALFUNCTION AND REMEDY**

Malfunction	Cause	Remedy
The pump can not do pumping	Fill water is not enough	Refill water into the pump
	Inlet pipe leakage	Check inlet pipe and connector of pipe change Pipe or tighten the screw
	Speed of pump is too low	Check speed and find cause for remedy
	The filter net is obstructed	Check the position of installation
	It is over the capacity of pump	Check the position of installation
	The seal was abraded and air leak	Change the machinery seal set
	The filter net, pipeline or impeller is Choked	Clean up the obstruction
	Speed is low	Increase speed
	Impeller of seal is wore seriously	Adjust the gap or change impeller and machinery seal
	Inlet pipe leakage	Check inlet pipe and connector of pipe, change the pipe or screw down the bolt



Original Instructions

Malfunction The flow of water is not enough	Impeller damage and leakage seriously	Change impeller into a new one
	Total head is too high There is air in the pump or inlet, air leak into the seal	Check the reason, adjust it Screw off air drain screw cock, and eliminate the air. Check the pipeline or change machinery seal
	Speed of engine is not stability	Adjust the speed of engine

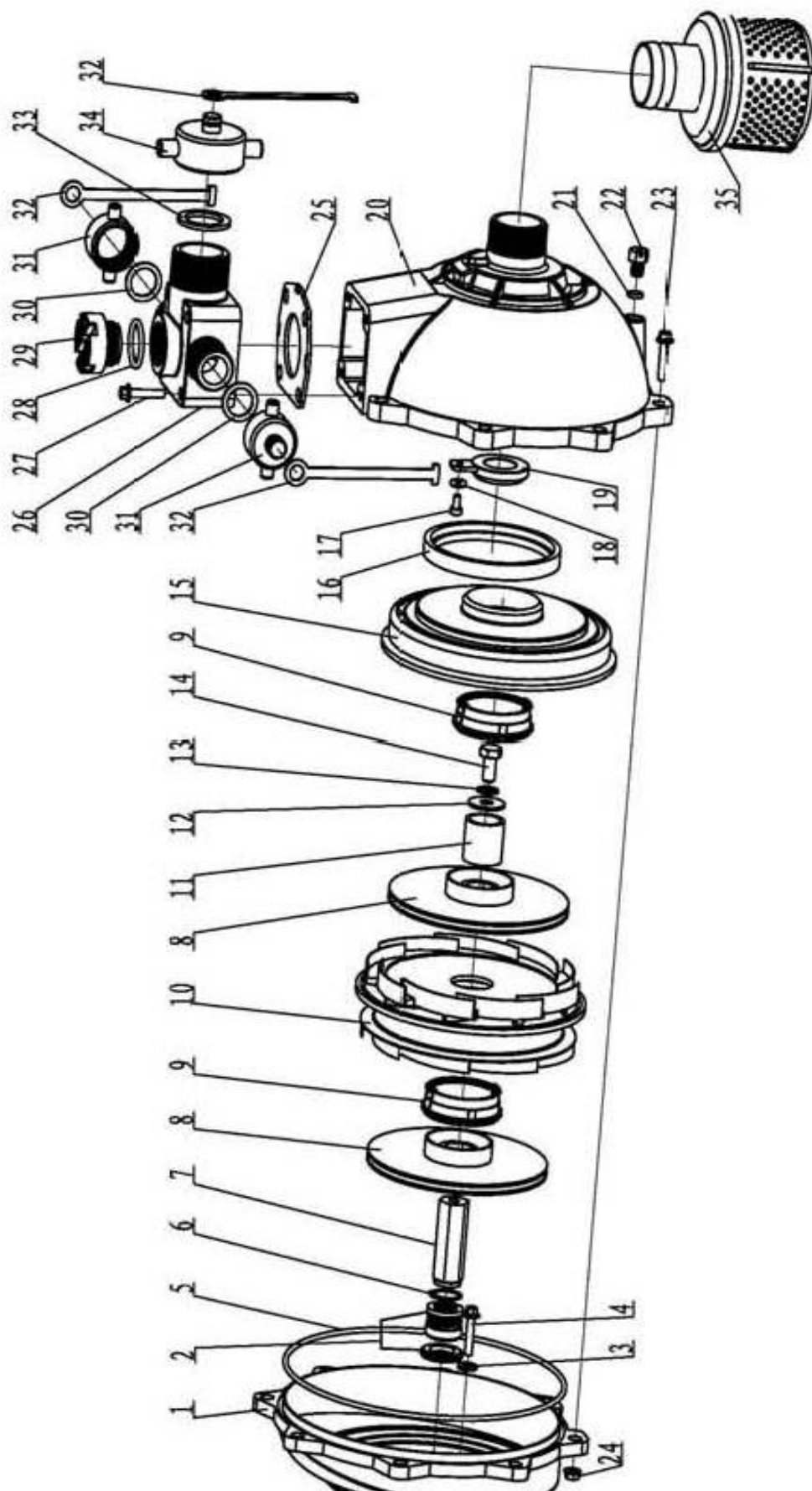
Malfunction	Cause	Remedy
Power consumption of pump is too large	There is a rub between impeller and flow guidance	Listen to the sound carefully, whether the impeller is clashed with the case and then to adjust
	The impeller is obstructed by weeds or eyewinker.	Check and clean up
No flow suddenly	The connector of inlet pipe is loosed or leakage	Check inlet pipeline and remedy
	Suction head is too high and cause cavitations	Check suction head and lower the position of pump
Cause vibration or noise	Suction head is too high and cause cavitations	Check suction head and lower the position of pump
	Output of water is too large	Decrease the output of water
	Inlet pipe is obstructed by foreign body so the resistance is too large	Check inlet pipe and filter net to clean up

## Original Instructions

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	Rotary part is loosed	Listen carefully and inspect the part which cause the noise and stop the machine to adjust
	Installing for pump unit is not stability	Stop the machine for checking and adjusting
	There is air lay up in the pump or pipeline	Screw off air drain screw cock and expel the air
	Impeller damage	Stop the machine for checking and change the impeller with a new one

**Part list of 1.5 inch(F40-2) two impeller high pressure pump**

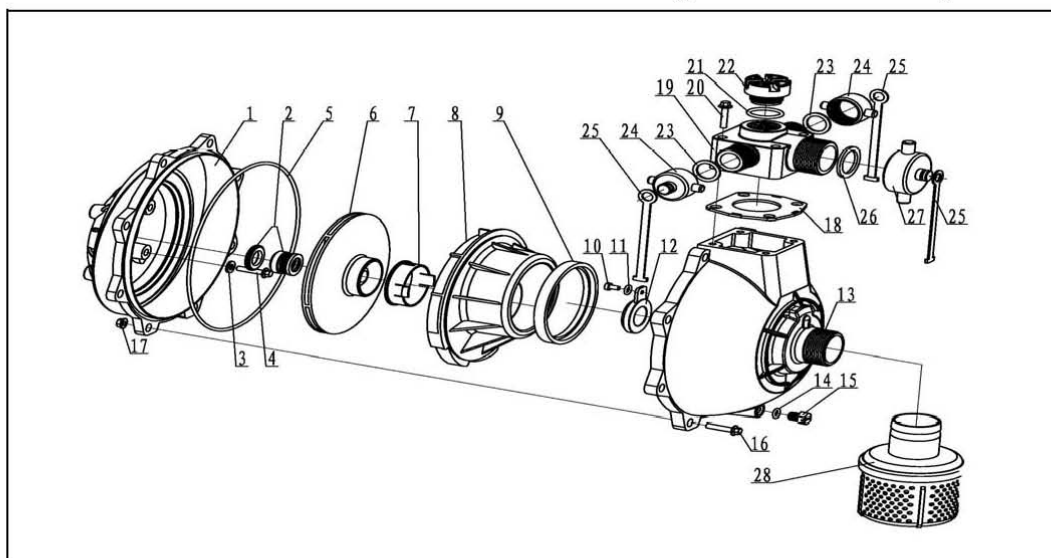


Original Instructions

**Part list of 1.5 inch(F40-2) two impeller high pressure pump**

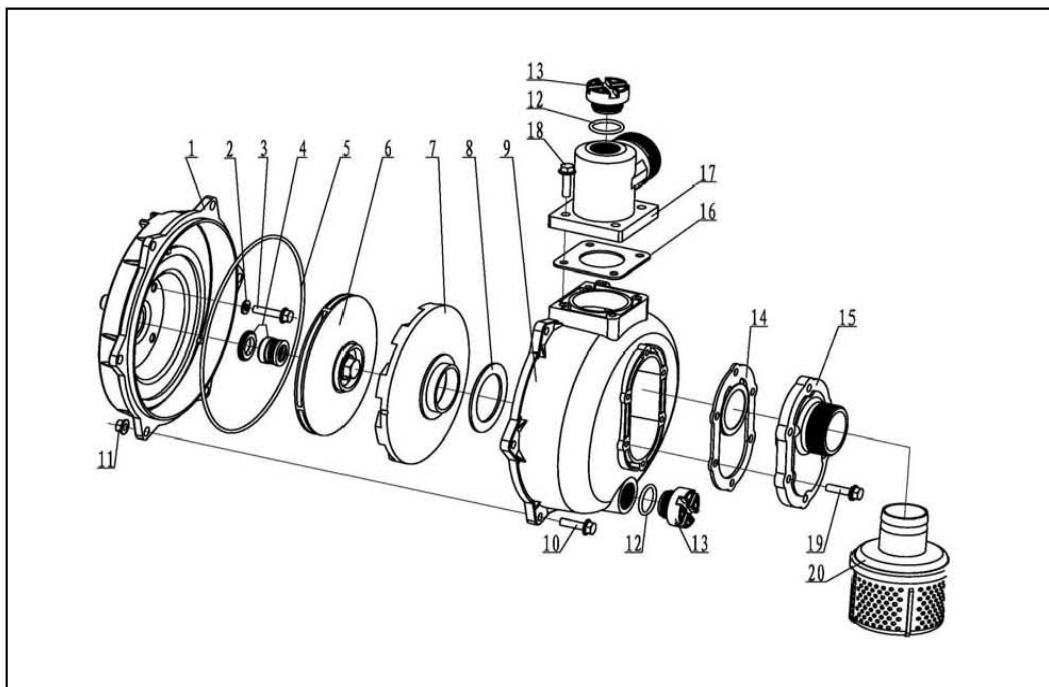
NO.	Code	Description	Qty
1	311050007902	rear housing	1
2	311050007701	mechanical seal	1
3	311010001802	washer 8	4
4	402080400160	hex bolt M8x40	4
5	311050007801	Oring $\phi$ 230x3.55	1
6	311050008100	ring	1
7	311050007601	shaft coupling	1
8	311050005102	impeller	2
9	311050007301	bush-diffuser	2
10	311050007201	diffuser	1
11	311050008200	sleeve	1
12	431100001100	gasket 10x30	1
13	431100000100	gasket 10	1
14	401100200160	hex bolt M10x18	1
15	311050005201	diffuser housing	1
16	311050007001	diffuser gasket	1
17	411050080120	screw M5x8	1
18	431050000100	gasket 5x10	1
19	311050005901	return valve	1
20	311050003901	pump housing	1
21	461008002650	"O"ring $\phi$ 8x2.65	1
22	311050008600	copper plug M10	1
23	402080300160	hex bolt M8x30	8
24	423080000120	hex nut M8	8
25	311050006801	gasket discharge flange	1
26	311050006701	discharge flange	1
27	402080550160	hex bolt M8x55	4
28	311050003601	"O"ring $\phi$ 30x3.55	1
29	311050003401	drain plug	1
30	311050006601	gasket(1")	2
31	311050006501	cap(1")	2
32	311050006901	link	3
33	311050006401	gasket(1.5")	1
34	311050006301	cap(1.5")	1
35	311050008300	filter	1

## Part list of 1.5 inch (F40) high Pressure Pump



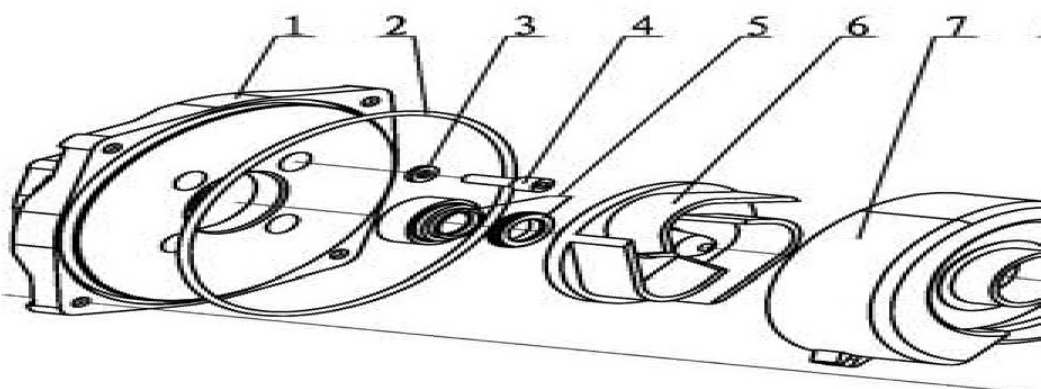
NO.	Code	Description	Qty
1	311050004702	rear housing	1
2	311050008400	mechanical seal	1
3	311010001802	washer 8	4
4	402080400160	bolt M8x40	4
5	311050008500	"O"ring $\phi 230 \times 3.55$	1
6	311050004504	impeller	1
7	311050006001	bush-diffuser	1
8	311050006101	diffuser	1
9	311050007001	diffuser gasket	1
10	411050080120	screw M5x8	1
11	431050000100	gasket 5x10	1
12	311050005901	return valve	1
13	311050004801	pump housing	1
14	461008002650	"O"ring $\phi 8 \times 2.65$	1
15	311050008600	copper plug	1
16	402080300160	bolt M8x30, flange	8
17	423080000120	nut M8, flange	8
18	311050006801	gasket discharge flange	1
19	311050006701	discharge flange	1
20	402080550160	hex bolt M8x55	4
21	311050003601	"O"ring $\phi 30 \times 3.55$	1
22	311050003401	drain plug	1
23	311050006601	gasket (1")	2
24	311050006501	cap (1")	2
25	311050006801	link	3
26	311050006401	gasket (1.5")	1
27	311050006301	cap (1.5")	1
28	311050008300	filter	1

## Part list of 2 inch(F50) high pressure pump



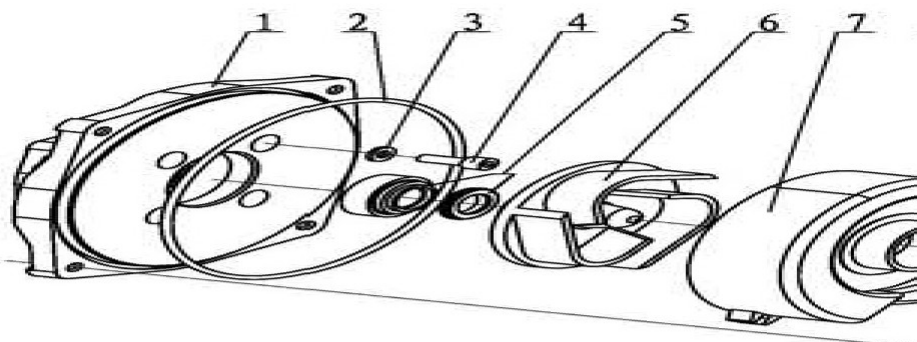
NO.	Code	Description	Qty
1	311060001300	rear housing	1
2	311010001802	washer 8	4
3	402080400160	bolt M8x40, flange	4
4	311060001400	mechanical seal	1
5	311060001500	"O"ring $\phi$ 230x3.55	1
6	311060000804	impeller	1
7	311060001001	diffuser	1
8	311060001600	diffuser gasket	1
9	311060001700	pump housing	1
10	402080300160	bolt M8x30, flange	6
11	423080000120	nut M8, flange	6
12	311060001800	"O"ring $\phi$ 30x3.55	2
13	311060001900	drain plug	2
14	311060002200	suction seal	1
15	311060000101	inlet valve	1
16	311060002100	gasket discharge flange	1
17	311060000301	discharge flange	1
18	402080250160	bolt M8x25, flange	4
19	402080200160	bolt M8x20, flange	6
20	311060002300	filter	1

## Parts list of



NO.	Code	
1	311010000202	<b>Pun</b>
2	311010001501	<b>Pum</b>
3	311010001802	<b>Bol</b>
4	402080450180	<b>Bol</b>
5	311010001901	<b>Me</b>
6	311010000604	<b>Imp</b>
7	311010000801	<b>Vol</b>
8	311010001601	<b>Vol</b>
9	311010000101	<b>Pun</b>
10	311010001301	<b>Dis</b>
11	4310800000100	<b>Was</b>
12	401080250160	<b>Bol</b>
13	311010001701	<b>Pri</b>
14	311010001101	<b>Pri</b>
15	311010000505	<b>Con</b>
16	311010000901	<b>Pip</b>
17	311010001401	<b>Inle</b>
18	311010000303	<b>Dis</b>
19	311010000403	<b>Inle</b>
20	311010001202	<b>Ret</b>
21	401080200160	<b>Bol</b>
22	401080250160	<b>Bol</b>
23	4310800000100	<b>Was</b>
24	311010002000	<b>Clip</b>
25	311010001003	<b>Filt</b>

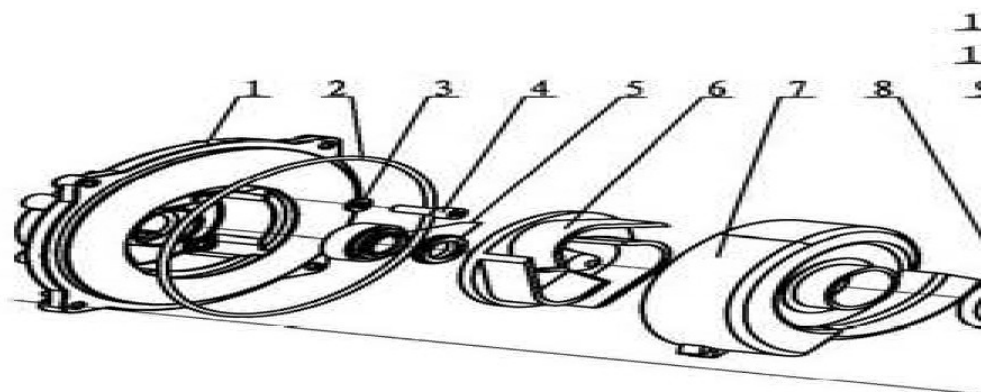
## Parts list c



NO.	Code
1	311020000202
2	311020001401
3	311010001802
4	402080450180
5	311010001901
6	311020000604
7	311020000801
8	311020001501
9	311020000101
10	311020001201
11	431100000100
12	402100250160
13	311010001701
14	311010001101
15	311020000505
16	311020000901
17	311020001301
18	311020000303
19	311020000403
20	311020001102
21	401100200160
22	402100250160
23	431100000100
24	311020001700
25	311020001003



## Parts list



NO.	Code
1	311030001001
2	311030002901
3	311010001802
4	402080450260
5	311030003901
6	311030002500
7	311030001301
8	311030001201
9	3110300000801
10	311030003401
11	4311000000200
12	4011003000260
13	311030003801
14	311030003601
15	311030002101
16	311030003701
17	311030003301
18	311030001501
19	311030001801
20	311030003502
21	401100250260
22	4011003000260
23	4311000000200
24	311030003201
25	311030004100

## EC Declaration of Conformity

We herewith declare, Fuzhou Launtopt M&E Co., Ltd.  
No. 56, Jinshan Road, Jinshan Industrial Park, Fuzhou, China

We declare that the following Appliance complies with the appropriate basic safety and health requirements of the EC Directives (see item 3) based on its design and type, as brought into circulation by us.

This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user.

- 1. Designation / Function: Gasoline Engine Powered Water Pumps / pump clean water and farming water
- 2. Type: P50C, P80C, P100C, F40C, F40C-2, F50C
- 3. Serialnumber:
- 4. Applicable EC Directives: - Machinery Directive 98/37/EC  
Additional used EC Directives: - EMC Directive 2004/108/EC
- 5. Used harmonized Standards: - EN809: 1998+AC: 02+A1: 2009
- 6. Responsible for documentation: [Name + address in EU]

Additional used EC Directives:  
- Directive **2002/88/EC** against the emission of gaseous  
and particulate pollutants from internal combustion  
engines to be installed in non- road mobile machinery  
- EMC Directive 2004/108/EC  
- Outdoor- Noise- Directive 2000/14/EC

	P50C	P80C	P100C	F40C	F40C-2	F50C
Model						
measured sound power level	99.4dB(A)					
guaranteed sound power level	105dB(A)					

## Original Instructions

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Conformity assessment method to Annex V/ Directive 2000/14/EC

7. *Date / Place/Authorized Signature:* 2010-2-12/Fuzhou, China/Benjaminzhuo

8. *Title of Sinatory:* General Manager

*Note:*

*The person importing the products becomes responsible for ensuring that they comply with the directives which apply to them. At very least, it is recommended that the importer obtain a copy of the original Declaration of conformity from manufacture.*