

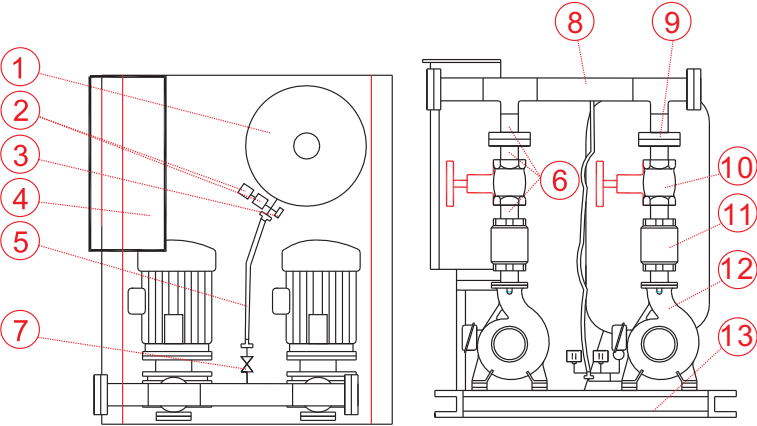
**EVERGUSH®**  
SINCE 1969

# ***PC-CP Auto Pressure Booster Pump System Instruction Manual***

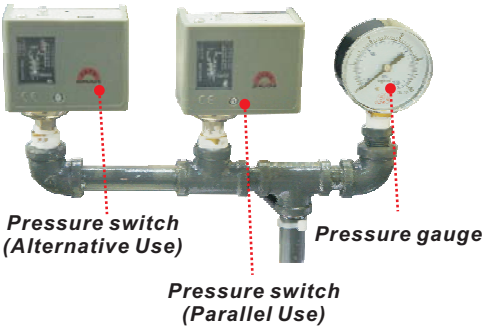


**MADE IN TAIWAN**  
**Asia Automatic Pump Co.,Ltd**  
**<http://www.evergushpump.com.tw>**

● Construction

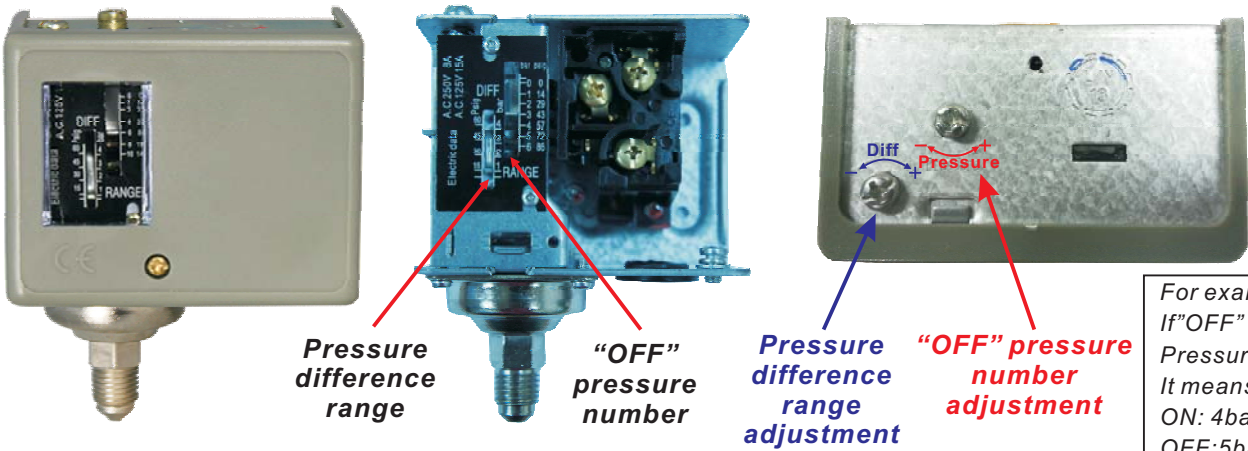


No.② and ③ Pressure switch & Gauge



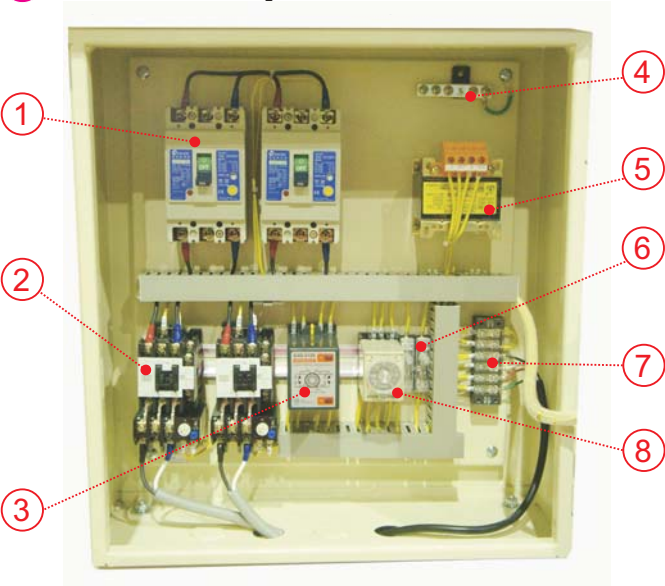
NO	Part Name
1	Pressure vessel
2	Pressure switch
3	Pressure gauge
4	Control panel
5	Hose
6	Outlet
7	Gage valve
8	Interflow
9	Flanges
10	Gate valve
11	Check valve
12	Pump
13	Baseplate

● Pressure switch adjustment



For example:  
If "OFF" pressure is 5bar,  
Pressure difference is 1bar.  
It means pump system  
ON: 4bar  
OFF: 5bar

● Inside Layout of Panel



NO.	Part Name
1	No fuse breaker
2	Magnetic switch
3	Alternative relay
4	Grounding conductor
5	Transformer
6	Fuse
7	Terminal block
8	Timer relay

Timer Relay

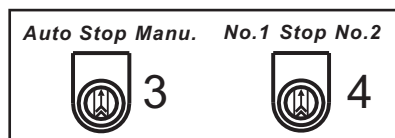


Timer setting: Please rotate arrow to the required time for pump running.  
For example: If set 1 minute, it means the pump will run at least 1 minute even small water capacity is consumed. It can prevent from frequent on/off running.

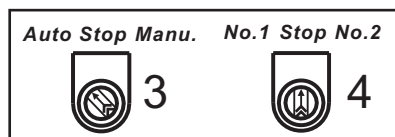
## Outside Layout

No	Name	No	Name
1	No 1 running(red)	3	Auto Stop Manual
2	No 2 running(red)	4	No 1 Stop No 2

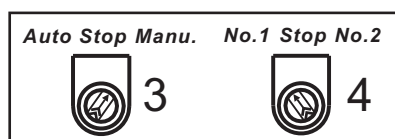
## Operation



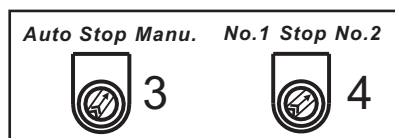
Stop operation



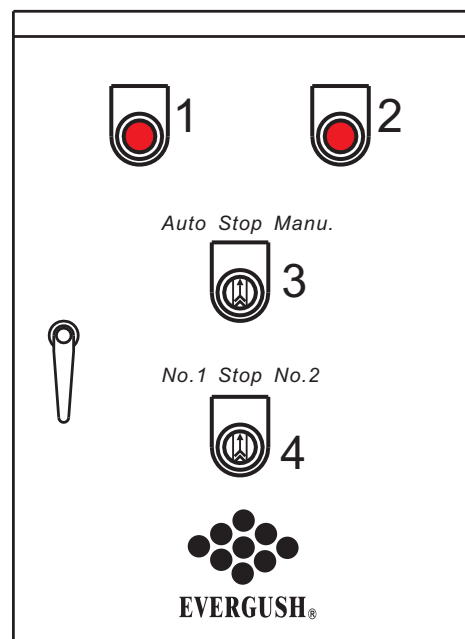
Auto operation



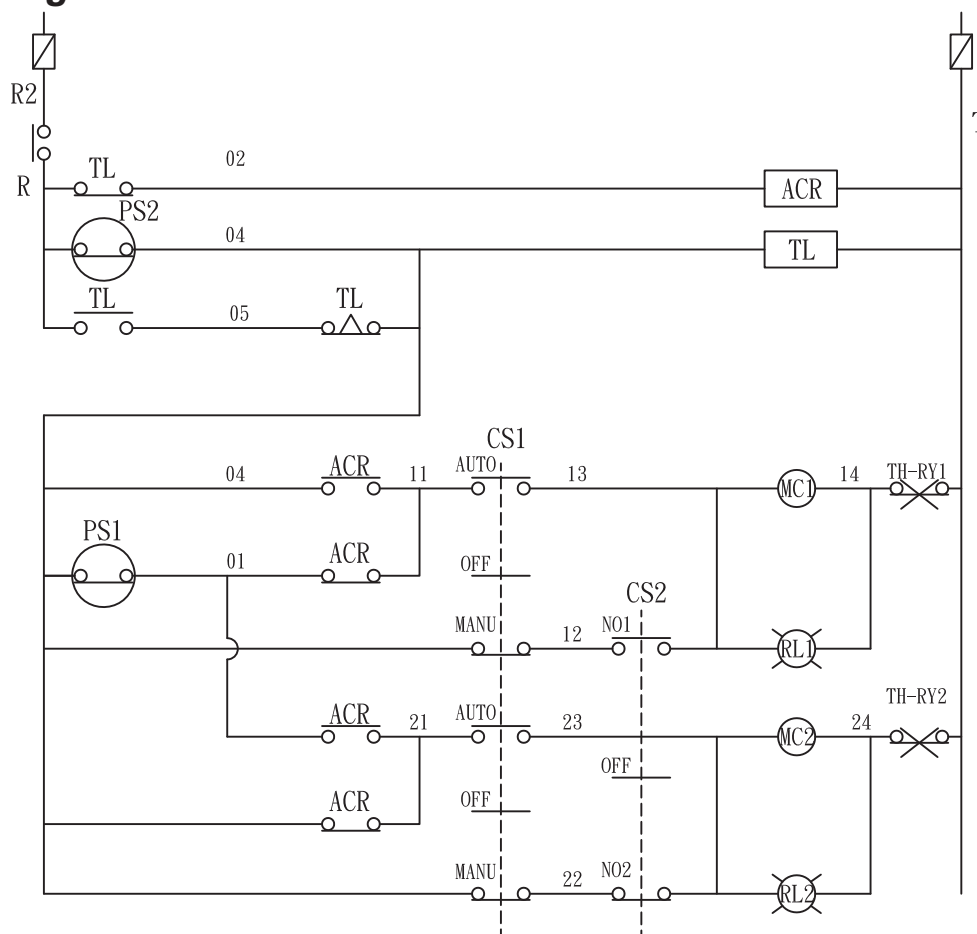
Manual operation, choose No.1 pump running



Manual operation, choose No.2 pump running



## Circuit Diagram



R2	R	04	01	R	04
water tank water level input		Parallel operation		Alternating operation	

## Safety Instruction

Before operation, read the instructions and follow safety rules as below.



**WARNING**-Be sure to install the pump properly before operation and install the Earth leakage **circuit breaker**. Failure to follow the precautions may lead to hazards if current leakage or electric shock occur.



**CAUTION**-Do not extend the length of power cable without consulting your supplier. The insulation resistance could be reduced significantly and cause electric shock. If the power cable is extended, do not immerse the splice in water.

## Installation

Before installation, check your local electrical and plumbing codes. Those regulations provide further information for your safety.

1. Be sure main power supply (breaker) is "OFF" when connect wiring with pump and float switch.
2. Be sure the power cable is not twist together during installation.
3. Make sure correct voltage and confirm wiring connection with pump and float switch correct and fixed, then you can turn on the main power ("On" on breaker).

### ● Electrical Connections

All wiring, electrical connections, and system ground wire must comply with any local codes and ordinances and perform correctly by a qualified electrician.

1. Be sure to install a ground wire to the pump before operation and install the circuit breaker and overload protector to prevent the motor from burning out. Failure to follow the precaution may lead to hazards if current leakage or electric shock occurs.

### ● Operation



**WARNING**-DO NOT operate pump while anybody is in water, electric shock could occur during electric leakage.

### ● Maintenance

1. SHUT OFF the power before maintenance.
2. Properly put panel in ventilated place and prevent from humidity, and keep out of reach of children.
3. The normal user is not allowed to disassemble the panel to do any repair/service works without any knowledge/training about the pump and relevant safety. Only qualified person with proper tools and knowledge should attempt service the pump.

## Troubleshooting

Unusual phenomenon	Malfunction /Cause	Solutions
Pump is not working	No voltage or power is off.	Re-starts the power
	Cable wire is fractured	Replaces it
	Fuse or circuit burns up	Replaces it
	Power source has poor contact	Re-connects it again.
	Voltage drops	Adjusts power & voltage
	3 phase voltage is unstable	Adjusts power; replaces impeller
When pump starts, it will stop immediately.	Liquid contains mud or sand	Clean pump impeller
	Liquid viscosity is too high	Replace suitable pumps
	Reverse phase in 3 phase	Replaces 2 wires in 3 phase wires.
The capacity is not enough or the head is low	Impeller is stuck or damaged	Cleans or replaces it
	Motor reverse phase	Replaces 2 wires in 3 phase wires.
	Pipeline or valve is leaking or stuck	Checks where the leakage is in pipeline or valve
	Actual performance can't reach customer requirements	Replaces it to better pump model
The pump system can't stop running.	Pressure "Off" setting is too high, Off point is higher than Max.head of pump.	Adjust down "Off" pressure point on pressure switch (read page No. 1)
	Pump discharge piping system is water leakage	Check pipe system
	No air inside pressure tank or diaphragm inside tank is broken	Refill air(1bar) in pressure tank or replace new tank