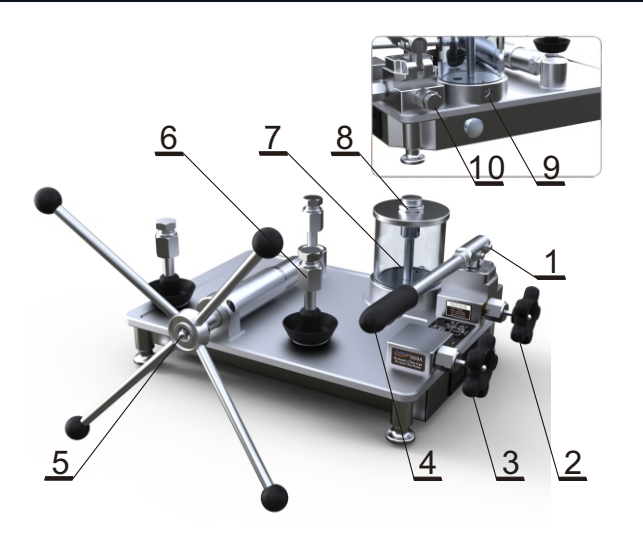
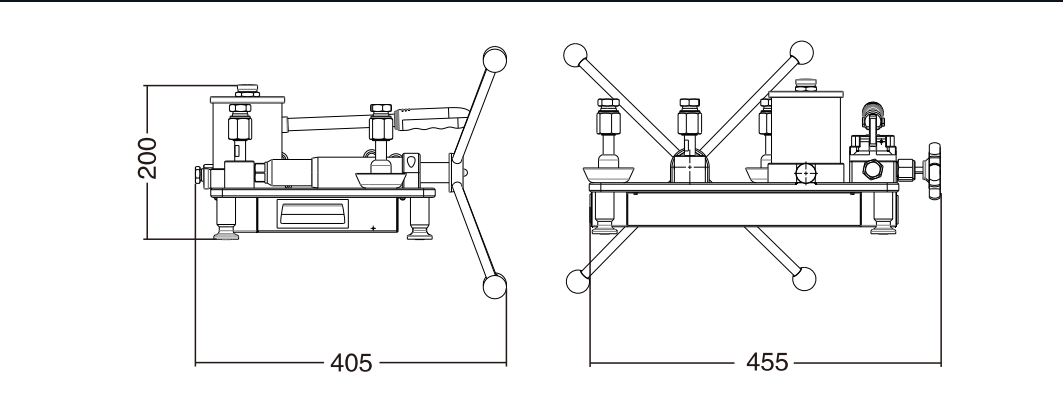
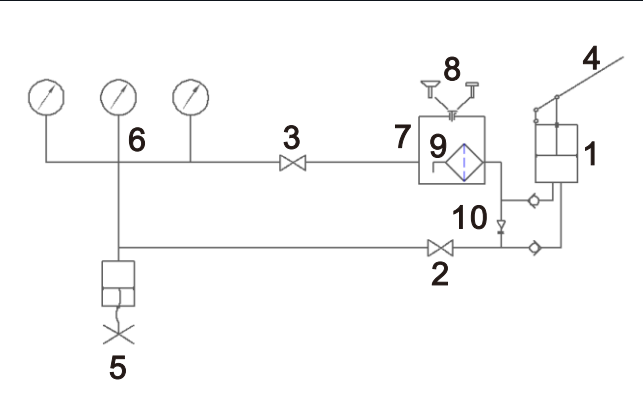


Views and Hydraulic Schematic



- 1 – Pre-pressure pump
- 2 – Isolation valve
- 3 – Vent valve
- 4 – Pre-pressure pump handle
- 5 – High-pressure and fine adjustment handle
- 6 – Connection port
- 7 – Reservoir
- 8 – Reservoir cover vent valve
- 9 – Liquid drain valve
- 10 – Safety valve (do not open)



Warnings and cautions

- Operate the pump in the rated pressure range of 40,000 psi (2,800 bar) and do not exceed the safety pressure of 44,000 psi (3,080 bar).
- Close all valves and handles and tighten the ports when transporting the pump.
- Always keep the reservoir cover vent valve(#8)open during operation.
- Change media immediately if it is contaminated.
- Keep media level between 1/4 and 3/4 of the liquid reservoir filled.
- Keep the connection threads clean and remove any particles or dirt on the threads.
- Do not over tighten the valves, connectors and handles to avoid damage.
- Do not use the pre-pressure pump to generate more than 8,700 psi (600 bar)
- Additel corporation is not liable for any safety problems or damages caused by misuse or incorrect operation.

Specification

- **Pressure range:** 0 to 40,000 psi ( 2,800 bar ) positive pressure
- **Temperature:** ( 0 ~ 50 ) °C      **Storage temperature:** ( -25 ~ 75 ) °C
- **Humidity range:** < 95%
- **Adjustment resolution:** 0.015 psi ( 1 mbar )
- **Safety pressure:** < 44,000 psi (3,080 bar)
- **Pressure media:** Diethylhexyl Sebacate
- **Reservoir capacity:** 420 ml (25.6 in³)
- **Size:** Height: 7.9" ( 200 mm )      Base: 17.9" ( 455 mm ) x 16.0" ( 405 mm )
- **Weight:** 27.6 lb ( 12.5 kg ) without media
- **Material:** SS, aluminum, copper, Buna-N
- Remark: Please drain the liquid in transportation.*

Troubleshooting

| Problem                                                            | Cause                                                            | Solution                                         |
|--------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------|
| Can not to generate pressure with the pre-pressure pump lever (#4) | Vent valve(#3) is open                                           | Close Vent valve(#3)                             |
|                                                                    | O-ring is broken                                                 | Replace O-ring                                   |
|                                                                    | Not enough media is in the reservoir.                            | Fill more media                                  |
| Hard to generate pressure with the pre-pressure pump lever (#4)    | Isolation valve(#2) is closed                                    | Open the isolation valve(#2)                     |
|                                                                    | Lever raised too high when above 2,900 psi                       | Lift the lever in small angel                    |
|                                                                    | Pre-pressure pump max pressure of 8,700 psi (600 bar) is reached | Use High-pressure and fine adjustment handle(#5) |
| Hard to turn the Valves or handles                                 | Too much power used in last operation                            | Close vent valve smoothly                        |
|                                                                    | Hard to close isolation valve in high pressure                   | Use more force                                   |
|                                                                    | Hard to turn the High-pressure Handle(#5)                        | Use more force                                   |
|                                                                    | Not enough lubrication on screw thread                           | Apply more lubrication                           |



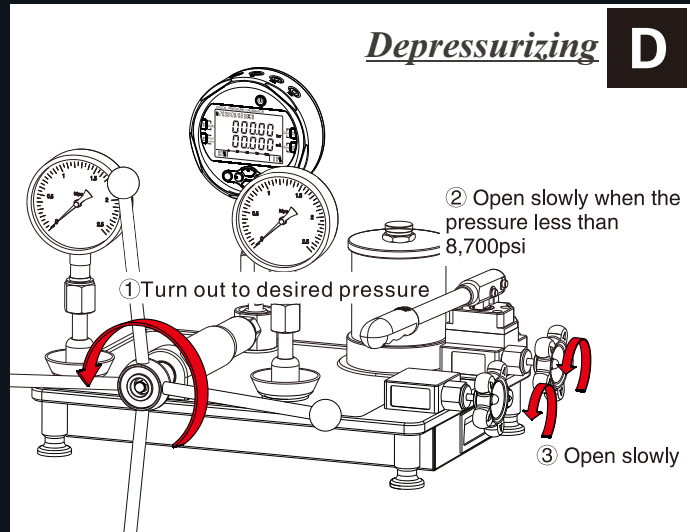
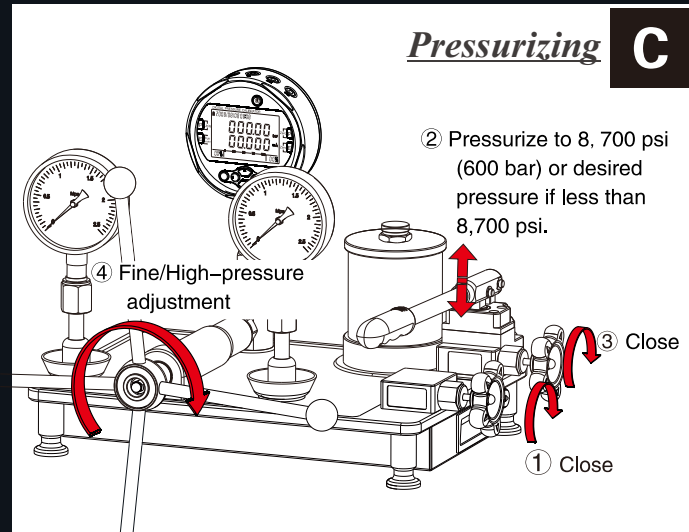
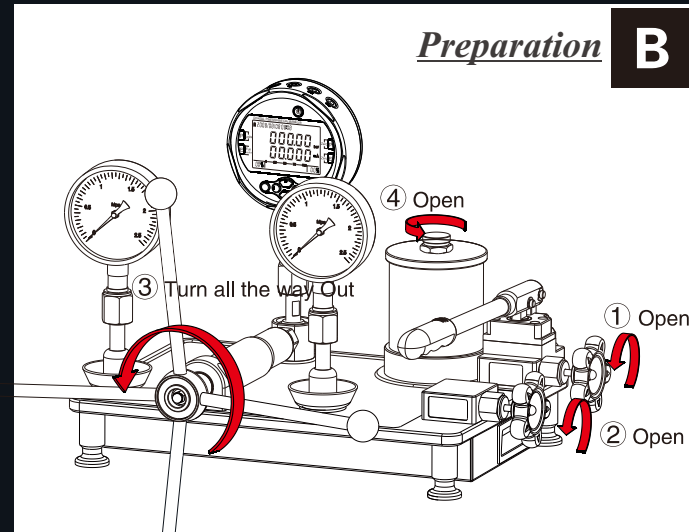
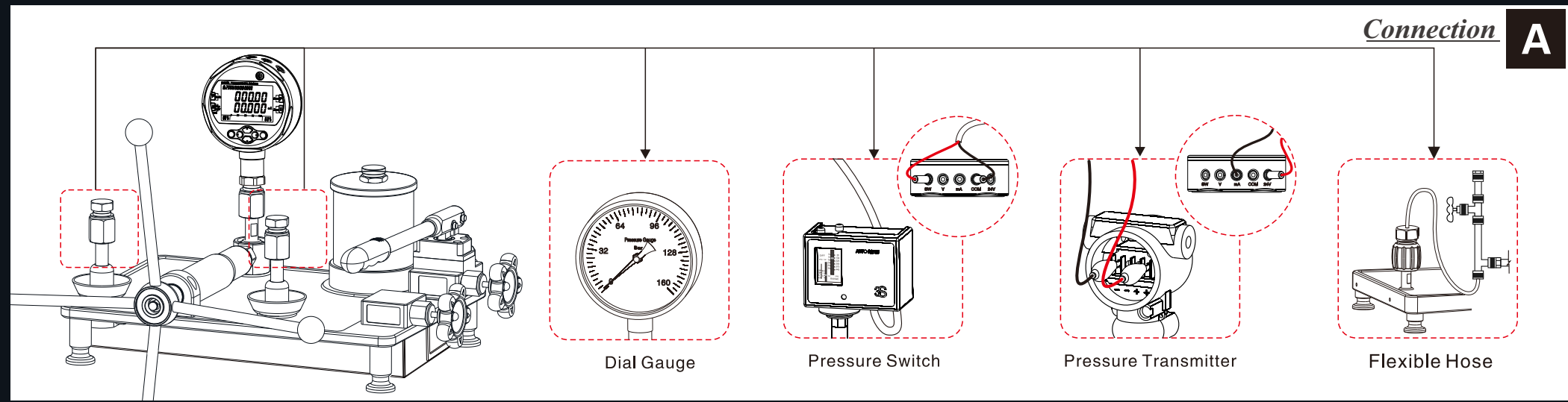
Additel 959A

Hydraulic Ultra-High Pressure Test Pump User's Manual

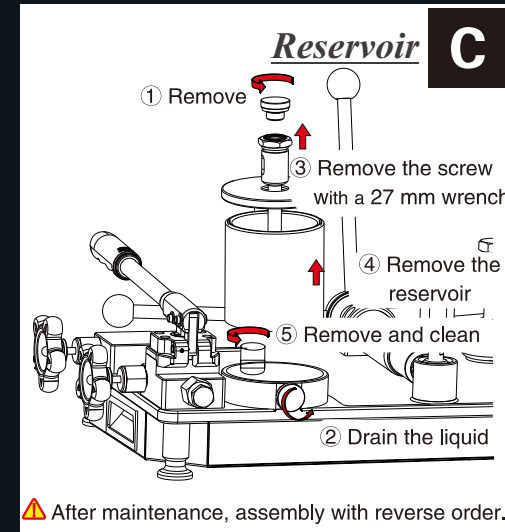
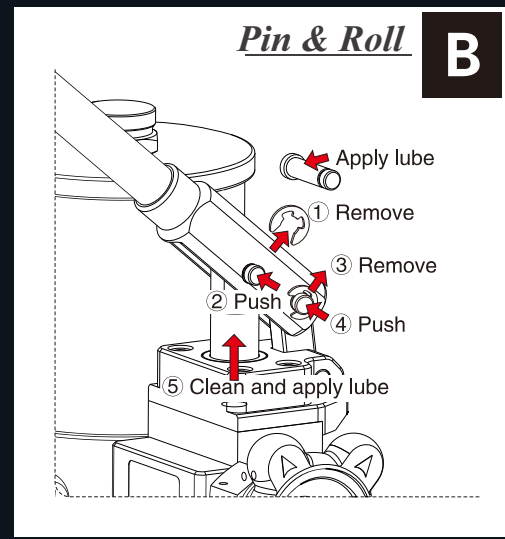
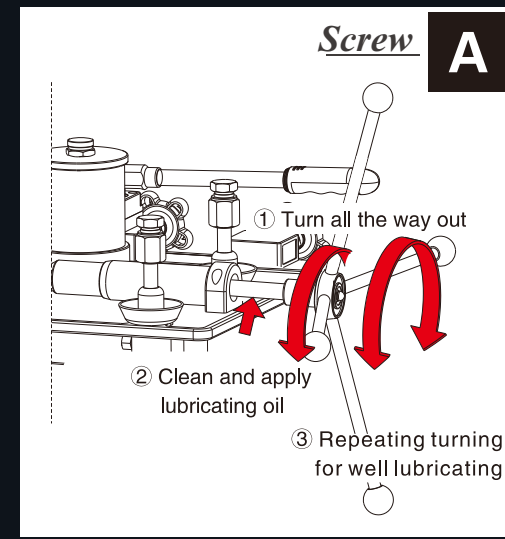
[Version number:1811V03]



# Basic Operation



# Maintenance



⚠ After maintenance, assembly with reverse order.

**Remark:**  
A: Additel has made a concerted effort to provide complete and current information for the proper use of the equipment. The product specifications and other information contained this manual are subject to change without notice.  
B: Above pictures are just for reference.