

Air
venturi
The Power of Air

G6 hand pump Owner's manual



Specifications

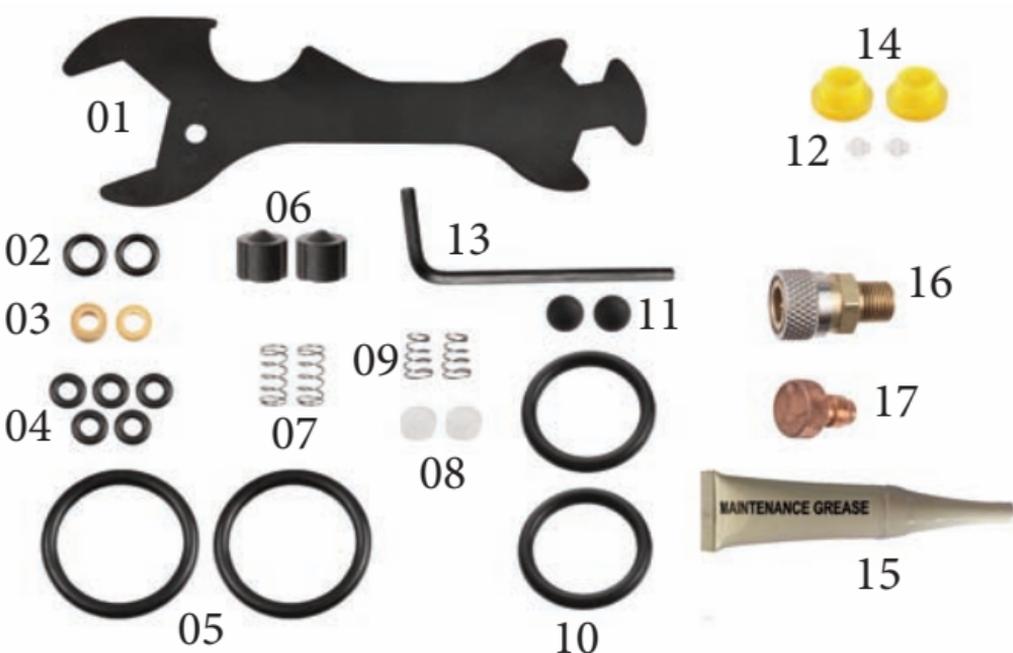
- 24.80 inches long—closed
- 43.31 inches long—extended
- 4500 psi/310 bar max pressure

Features

- Integral manometer (pressure gauge)
- Folding footplate
- Test plug
- Comfortable, ergonomic handles
- Micro-bore hose
- Easily accessible bleed valve
- Moisture filters
- Flexible hose with spiral steel cage
- Quick-disconnect with female coupling
- Can be rebuilt 5x by user
- Two-year warranty

Accessories

- 01: Spanner wrench..... 1 pc
- 02: High-pressure stem sealing ring 2 pcs
- 03: High-pressure piston ring 2 pcs
- 04: O-ring 5 pcs
- 05: Outer tube piston ring 2 pcs
- 06: Check valve 2 pcs
- 07: Check valve spring 2 pcs
- 08: Sealing gasket for bleed valve 2 pcs
- 09: High-pressure piston spring 2 pcs
- 10: Low-pressure piston ring 2 pcs
- 11: Seal ball for one-way inlet hole 2 pcs
- 12: High-pressure spool valve..... 2 pcs
- 13: Allen wrench..... 1 pc
- 14: Protective caps 2 pcs
- 15: Maintenance grease tube 1 pc
- 16: Female quick-disconnect 1 pc
- 17: Test plug..... 1 pc

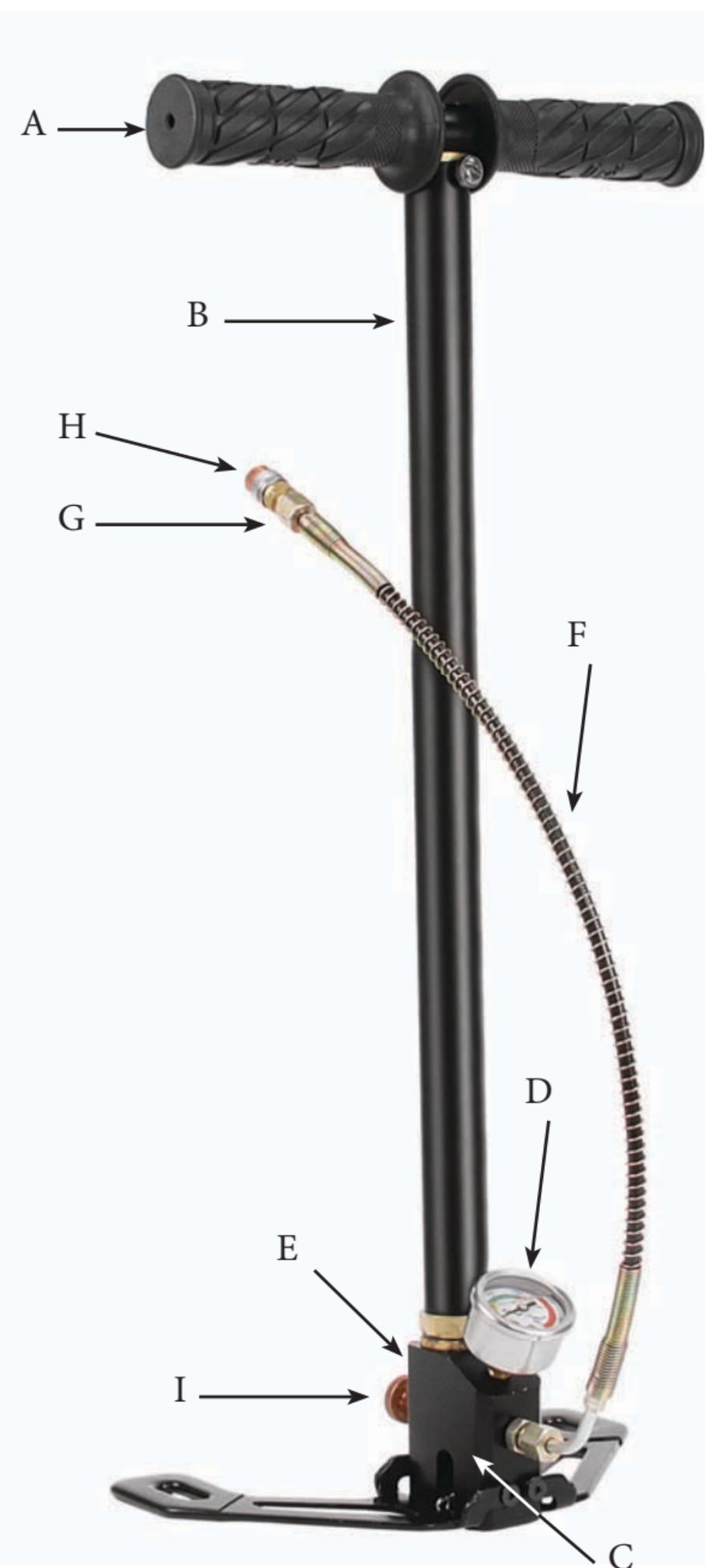


If you need technical or maintenance help, call Air Venturi tech support: 216-220-1180

Assembly

As shown in the image below, attach the following items:

- A: Rubber grip with filters
- B: Pump barrel
- C: Base plate
- D: Pressure gauge
- E: Moisture filter
- F: Hose
- G: Female quick-disconnect coupling
- H: Test plug
- I: Bleed valve



Testing

1. Make sure the test plug has been inserted into the quick-disconnect, as mentioned previously.
2. Open the bleed valve located in the back of the base.
3. Rapidly pull up on the pump handle and then press it down to the bottom until it stops...and do this up and down pumping motion 20 times.
4. The pumping should be relatively easy.
5. Tighten the bleed valve.
6. Repump as stated in step 3 but stop when you reach 100 bar/1450 psi.
7. Open the bleed valve to release the air.
8. Repump as stated in step 3 but stop when you reach 200 bar/2900 psi.
9. Do NOT open the bleed valve, yet. Wait about 2 minutes after you finish pumping to verify that the gauge does not show pressure is dropping.
10. You may test for slow leaks by putting the pump base, hose and test plug in water to see if there are bubbles, which indicate leaking air. (See troubleshooting section if you detect a leak.)
11. If there are no air leaks, open the bleed valve to exhaust the air from the hose. If you put the pump base in water to test it, please be sure to remove it from the water before opening the bleed valve.

Operation

1. Connect the pump to the reservoir you want to fill with air. Your gun's reservoir may not fit the coupling supplied with this pump, but the manufacturer should supply or have available for purchase the right coupling.
2. Before you start pumping:
 - a. Make sure the bleed valve is tightened and not exhausting air.
 - b. Stand on the pump's footplate to help stabilize the unit.
 - c. Make sure the hose is straight—not kinked or bent.
3. Start pumping by pulling the handle completely to the top, pause for a split second and then push the pump handle all the way down. Repeat until you the gauge shows you've reached the desired pressure.
4. It's normal to feel some resistance and exert additional effort as the pressure in the reservoir increases.
5. After you've reached the desired pressure in the reservoir, open the pump's bleed valve to exhaust the remaining air in the hose.* It's normal to see water vapor and water drops when exhausting the air.

To ensure the check valve on the gun or container closes completely and immediately, fully and quickly open the bleed valve on the pump. Do not slowly or partially open the pump's bleed valve.

*If you're filling a tank (i.e., scuba tank or carbon fiber tank) that has a shut-off valve, you will need to shut off the valve before opening the bleed valve on the pump.



WARNINGS:

Do NOT disassemble any joint when there is any residual air in the pump! Doing so may be dangerous and will void your warranty.

Do NOT put any part of your body near the bleed valve air vent or point the vent at people or animals. The blast of air and water may cause injury or damage.

Troubleshooting

Issue #1—The pressure gauge needle isn't moving or seems to be moving very slowly even though you've been pumping for some time.

Cause: You didn't close the bleed valve.

Solution: Close the bleed valve.

Cause: Air leak in the pump or hose.

Solution: Follow step 10 in "Testing" section to find the leak.

Issue #2—While pumping, the upward stroke is light but the downward stroke is heavy...or the pump handle pushes up by itself.

Cause: Faulty o-ring.

Solution: Refer to figure 7-2 to replace o-ring.

Issue #3— During pumping, the upward pull is very heavy, and the pump handle is automatically sucked back down without manual effort.

Cause: Dirt in the check valve.

Solution: Remove dirt from check valve.

Cause: Check valve in the base plate is damaged or isn't sealing for another reason.

Solution: Refer to figure 7-3 to replace or fix check valve.

Issue #4—Upward and downward strokes are unusually heavy.

Cause: Lack of oil.

Solution: Refer to figure 7-4 to properly lubricate.

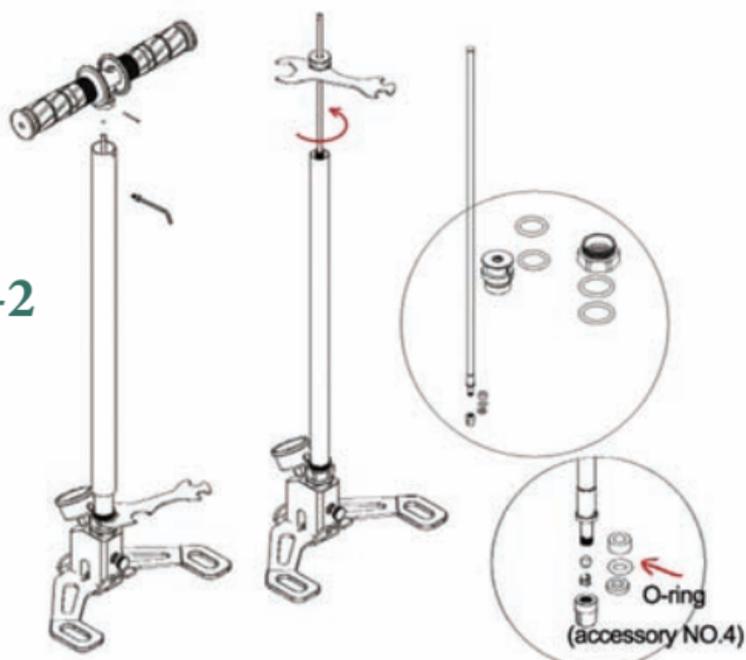
Issue #5—Pressure gauge needle doesn't point to zero.

Cause: Defective pressure gauge.

Solution: Replace pressure gauge.

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Fig. 7-2



Replace the o-ring as shown above.

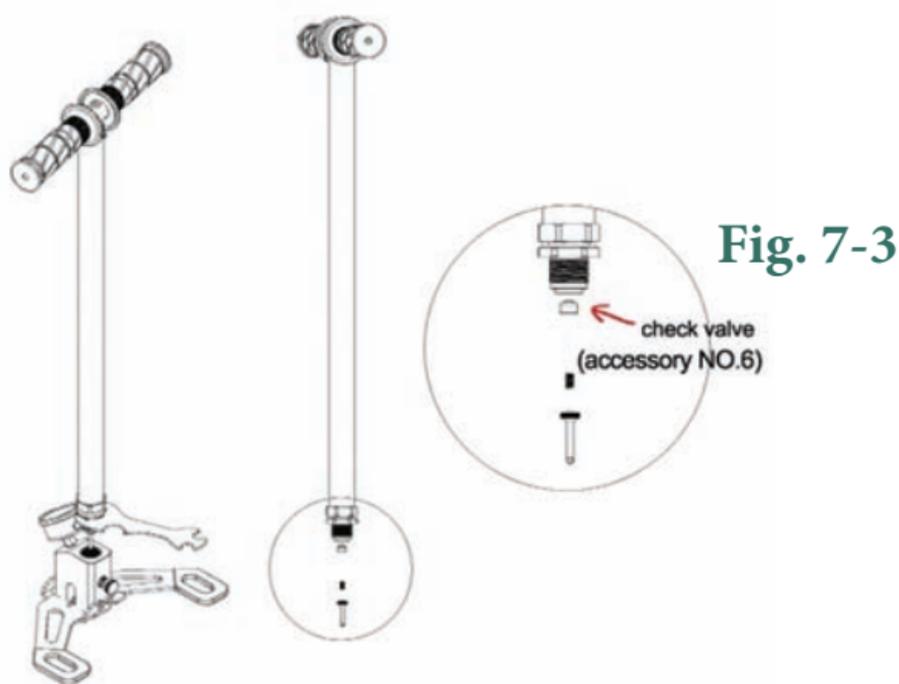


Fig. 7-3

Using the spanner wrench, open the check valve in the base plate. Clean or replace the check valve.

Fig. 7-4



Lubricate pump with silicone oil as shown.

Pump up and down several times (without connecting to a reservoir or tank and without using the test plug) after adding the silicone oil. Any excess oil must be drained from the pump through the pumping action in order to avoid the possibility of an explosion.

When you bleed the air from the hose, you may hear hissing and the sound of water as the air is released. That's the residual air left in the hose. The larger the volume of air, the louder the sound. If it's exceptionally loud or louder than what you've previously experienced, the check valve of the reservoir or container may not be functioning properly.

It's also possible the valve in the reservoir or tank may be defective, loose or not working properly. **To ensure the check valve on the gun or container closes completely and immediately, fully and quickly open the bleed valve on the pump. Do not slowly or partially open the pump's bleed valve.**

To determine if it's the pump or the device that's being filled, use the pump to fill other tanks or reservoirs. If the other items do not exhibit the same issues, then the pump is not the cause of the problem.

Two-year limited warranty

The G6 pump is warranted to the retail consumer for two (2) years from date of retail purchase against defects in material and workmanship.

What is covered: Replacement parts and labor. Transportation charges to consumer for repaired product.

What is NOT covered: (1) Transportation charges to Air Venturi for defective products. (2) Damages caused by abuse or failure to perform normal maintenance. (3) Parts subject to normal wear and tear. (4) Consequential damages, incidental damages or incidental expenses including damage to property. (5) Any other expense.

NOTE: Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Warranty claims for U.S. and Canadian customers: Return product to Air Venturi. Call Air Venturi at 216-220-1180 before returning any product.

Implied warranties: Any implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, are limited in duration to two years from date of retail purchase.

NOTE: Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

To the extent any provision of this warranty is prohibited by federal, state or municipal law which cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

Illustrations and photographs are for information purposes only and may not show the exact model purchased.

Warranty will be invalid if: (1) The pump has been incorrectly disassembled or reassembled. (2) The pump is found to have lubrication not recommended by Air Venturi. (3) The pump has been fitted with non-Air Venturi parts. (4) The pump has been misused or abuse. (5) The original purchase receipt cannot be presented.

Warranty does NOT cover: (1) Any damage or faults caused by owner misuse or action. (2) Shipment damage of the pump to or from Air Venturi.

This warranty is in addition to your statutory rights. Retain your sales receipt as proof of purchase, as it will be required to obtain warranty service.