

WARNING: IMPROPER USE OR FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN EXPLOSIVE FAILURE WITH MAJOR INJURIES. FOR SAFE USE OF THIS PRODUCT YOU MUST READ AND FOLLOW ALL INSTRUCTIONS BEFORE USE.

WARNING: Improper mixing of pressure and gas producing chemicals such as Hydrogen Peroxide or Sodium Carbonate Peroxyhydrate with hot water can create excess tank pressure and affect the pressure relief valve operation, leading to tank damage or explosive failure. Always read chemical labels before filling sprayer. Some chemicals may be hazardous when used with this sprayer. Consult your distributor if you have any questions regarding chemical compatibility or safety. **NEVER** spray flammable materials. **NEVER** pressurize sprayer by any means other than the original pump. **NEVER** loosen or attempt to remove the pump assembly if there is pressure in the sprayer. **NEVER** stand with face or body over the top of the tank when pumping or loosening pump, to prevent ejected pump assembly and/or solution from striking and injuring you. **DO NOT** leave a pressurized sprayer in the hot sun. Heat can cause pressure build-up. **DO NOT** store or leave solution in tank after use. **DO NOT** attempt to modify this product. Repair with original manufacturer's parts only. **ALWAYS** wear goggles, gloves, long sleeve shirt, long pants and full foot protection when spraying. **ALWAYS** connect hose and sprayer valve to tank, check fittings and pressure test before filling and using sprayer. **ALWAYS** check sprayer for leaks or damage before each use.

PRE-USE CHECK:

- Check hose connections to be sure hose is securely attached to tank outlet and spray valve. Inspect the hose for deterioration, cracks, bulges, softness or brittleness. Repair or replace hose as needed before using sprayer.
- Remove pump assembly inspect pump barrel assembly and tank for signs of deterioration. Any signs of deterioration indicate possible weakness and could result in explosive bursting under pressure. If any of these signs are found replace pump assembly or discard sprayer. Do not attempt to repair tank.
- Inspect check valve and pump assembly o-rings. Clean lubricate or replace as needed to prevent leaks.
- Pressure Test: Fill tank with water only. Attach pump assembly to tank. Pump the plunger 8-10 strokes and inspect for leaks.
- Direct spray wand away from you and open valve to be sure discharge is not clogged. If sprayer passes test, release pressure, drain tank and proceed with intended use; filling, pressurizing and spraying.

FILLING SPRAYER:

Remove pump assembly from sprayer tank. Hold tank and grasp pump assembly cap. Turn pump assembly cap counterclockwise to unscrew cap from tank. Pour the appropriate amount of ready to use chemical solution into the sprayer tank. Do not overfill. Maximum fill level is at the FULL mark on the side of the sprayer tank. Air space above the FULL mark is required to pressurize tank. If using powdered chemicals, make sure chemical

is completely dissolved before pouring chemical into the sprayer tank. Un-dissolved powders can clog sprayer discharge hoses, valves & jets. Make sure there is no dirt or other debris stuck to the pump barrel. Wipe the pump barrel clean as needed. Re-attach the pump assembly to the sprayer tank. Turn cap clockwise to tighten pump assembly onto tank.

PRESSURIZING & SPRAYING:

Disengage the pump handle from the locked position, by pushing handle down and rotating ¼ turn counterclockwise to align handle lock bars with slots. Then lift and pump handle up and down until pressure builds and pump handle becomes hard to push. Return pump handle to the locked position by pushing handle lock bars down through the slots, rotating handle ¼ turn clockwise and back up into the locked position.

WARNING: Sprayer is now pressurized. Do not attempt to remove pump assembly, disconnect hose or valve without releasing pressure from the tank. Direct the spray wand away from you and open valve to spray chemical out onto the desired surfaces. As you spray, the pressure in the tank will be released and the spray flow rate will decrease. Re-pump as needed to restore tank pressure and continue spraying at the desired rate.

PRESSURE RELEASE:

NEVER loosen or attempt to remove the pump assembly if there is pressure in the sprayer. To release pressure from sprayer, pull up on pressure relief valve located on top of sprayer pump assembly. Hold pressure relief valve in up position until pressure is completely exhausted from sprayer tank.

SPRAYER CARE, STORAGE & MAINTENANCE:

Rinse Sprayer: **DO NOT** store or leave solution in tank after use. Release pressure from tank. Drain chemical from tank and rinse tank with water. Fill tank with water and attach the pump assembly to the tank. Pump the plunger 8-10 strokes. Direct the spray wand away from you and open valve to spray water to rinse out hose, valve and spray wand assembly. After rinsing is completed, release pressure from sprayer tank and drain water from tank. Hang tank upside down in warm dry location to allow tank to dry.

Lubricate spray valve: Remove spray wand extension from valve. Direct valve discharge up and place 6-8 drops of light oil into the discharge hole then activate valve lever.

Lubricate Pump O-rings: Hold pump assembly cap, grasp pump barrel and unscrew the pump barrel from the bottom of the pump assembly cap. Pull pump barrel off pump shaft to expose plunger assembly. Apply a small amount of a synthetic grease or o-ring lube to the plunger o-ring. Lubricate o-rings at top of pump barrel and on the top of the sprayer tank, then reassemble the pump barrel and pump cap assembly.

Inspect Check Valve: The Viton check valve on the bottom of the pump barrel can be softened and deformed by some chemicals. Chemical residue can build up and prevent check valve from sealing properly. Remove check valve examine, clean, lubricate or replace as needed.

HYDRO-FORCE™

TWBS 1 Gallon Solvent Sprayer

*The World's
Best Sprayer*



Part Number: AS18

Revised 7/1/2020

This 1 gallon sprayer with 10' industrial duty flex hose has a comfortable and durable spray gun and spray tip with a no-drip spray screen. Comes equipped with Viton seals, brass fan pattern jets, an external relief valve and has a wide mouth for easy filling without spills. Completely rebuildable.

To learn how you can save time
and money using a Hydro-Force sprayer
call 800-637-3789 or visit www.hydroforce.com

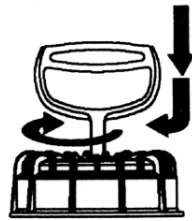
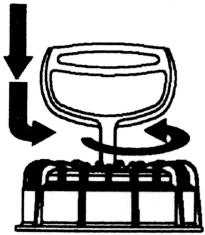
HF HYDRO-FORCE™
Innovating since 1974

PARTS BREAKDOWN



TO LOCK HANDLE:

Push handle down to depress coil spring and turn handle 1/4 turn clockwise, then allow handle to raise into lock position.



TO RELEASE HANDLE:

Push handle down to depress coil spring and turn handle 1/4 turn counter-clockwise, then lift handle.

PARTS LIST

| PART DESCRIPTION | | PART # |
|------------------|--------------------------------------|---------|
| A | Pump Assembly | NA2312 |
| B | Pressure Relief | NA2310 |
| C | Tank Cap O-Ring | NA2314C |
| D | Viton Check Valve | NA2256 |
| E | Teejet Cap | NA0826 |
| F | Teejet 6501 B006 | NA0807 |
| G | Check Strainer | NA0825 |
| H | Strainer Body | NA0802 |
| I | Gunjet | NA0820A |
| J | Draw Tube TWBS | NA2315 |
| K | Hose Assembly | NA2248B |
| | Valve Repair Kit For Gun (not shown) | NA0842 |
| | Valve For Gun (not shown) | NA0845 |
| | O-Ring for Pump Barrel (not shown) | NA2314B |
| | Plunger O-Ring (not shown) | NA2314A |

GAUGE / RELIEF / RELEASE VALVE



To release pressure in tank, pull pressure valve up until pressure is completely exhausted.



When pressurizing sprayer, read gauge as cap automatically rises. Recommended pressure is 25-40 psi (2-3 Bar)

NOTE: Automatic pressure release will occur between 40-50 psi (3-3 1/2 Bar)