

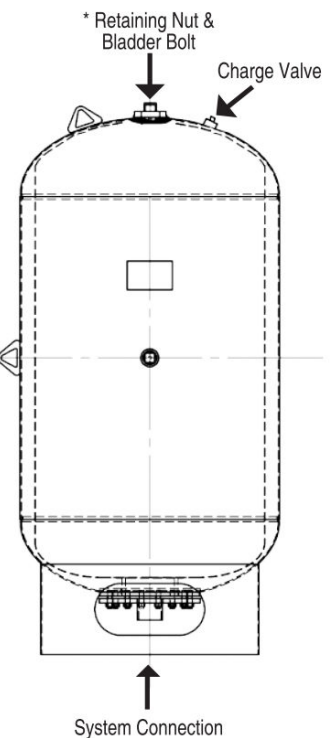


BDT TANK INSTRUCTIONS FOR BLADDER CHANGE

RECOMMENDED TOOLS & SUPPLIES:

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|--------------------------|--|
| 1. Plumbers tool box | 5. Pressure Gauge |
| 2. Compressed air source | 6. 1/4" (20) all Thread Rod for BDT-040 & up |
| 3. Replacement Bladder | 7. Work light |
| 4. Chain block | 8. Extension cord |

- Isolate bladder type expansion tank from system. Shut off automatic fill, valve and drain boiler to release all system pressure.
- Bleed system air charge through air charging valve. Remove air valve core at top of the tank and discharge remaining air.
- Disconnect tank from the system.
- Remove bolted bottom flange. Prior to removal, mark mating flanges in order to match up properly when reassembling.
- Loosen and remove retaining nut on top of tank. For tanks 26 gallons and smaller, proceed to step.
- Use the chain block to support the weight of the bladder. With a slight twisting motion, slide the bladder out of the tank. Remove bladder retaining bolt from inside of bladder and set aside to reinstall with new bladder.
- Clean up any remaining water, dry out the inside of the tank and clean out any remaining dirt or foreign particles. Check the inside of the tank for any sharp edges that may cut the bladder.
- Place bladder bolt inside new bladder secured with 1/4" All Thread Rod threaded into top of bladder bolt. Roll up bladder as necessary and pull through tank with thread rod.
- Secure bladder bolt to top of tank with retaining nut. Hand tighten at this point. For tanks 26 gallons and smaller, proceed to step 10.
- Position bottom neck of bladder in bottom of tank opening to act as gasket sealing surface for system connection.
- Replace the bottom flange, align the marks and tighten the bolts evenly, using a star pattern.
- Tighten all threaded and bolt connections.
- Using compressed air source and pressure gauge, apply 10 psi air pressure to the flange connection then relieve pressure. These actions should ensure proper positioning of the replacement bladder within the tank.
- Reassemble the air valve at the top and seal the hanger opening.
- Precharge tank to fill-pressure or minimum operating pressure.
- Using soapy water, check the air valve, retaining bolt and nut and bottom flange joint for leakage.
- Reconnect the system, open the fill-valve and check operation of the tank. Always precharge tank before completing this step.



*Retaining Nut on sizes 40 gallons and larger



2701 W. Concord Street
Broken Arrow, Ok 74012
Toll Free: 866-204-5229 | PH: 918-317-0401
americanwheatley.com | sales@americanwheatley.com

