WARNING: DO NOT USE THESE EXTINGUISHERS ON FIRES INVOLVING ENERGIZED ELECTRICAL EQUIPMENT (CLASS C HAZARDS), FLAMMABLE METALS (CLASS D HAZARDS) OR ANY FLAMMABLE THAT WILL REACT WITH WATER. PROTECT FROM FREEZING!

All fire extinguishers should be installed, inspected and maintained in accordance with the National Fire Protection Association standard titled "Portable Fire Extinguishers", NFPA-10 and the requirements of local authorities having jurisdiction.

When maintenance is indicated it should be performed by trained persons having proper equipment. Fire extinguishers are pressure vessels and must be treated with respect and handled with care. They are mechanical devices and require periodic maintenance to be sure that they are ready to operate properly and safely. Amerex strongly recommends that the maintenance of portable fire extinguishers be done by a trained professional – your local authorized Amerex Distributor.

Amerex Corporation makes original factory parts available to insure proper maintenance – use of substitute parts releases Amerex of its warranty obligations. Amerex parts have machined surfaces and threads that are manufactured to exacting tolerances. O-rings, hoses, nozzles, horns and all metal parts meet precise specifications and are subjected to multiple in-house inspections and tests for acceptability. There are substitute parts available that are incorrectly labeled as UL component parts, some are advertised as Amerex type. None of these meet UL requirements and all of them void the Amerex extinguisher warranty and UL listing. DO NOT SUBSTITUTE.

REFERENCES IN THIS MANUAL

NFPA-10 Portable Fire Extinguishers
CGA C-1 Methods for Hydrostatic Testing of Compressed Gas Cylinders
CGA C-6 Standard for Visual Inspection

AVAILABLE FROM

National Fire Protection Association
P. O. Box 9101
Quincy, MA  02269-9101

Compressed Gas Association
1235 Jefferson Davis Hwy, Suite 501
Arlington, VA  22202

AMEREX CORPORATION – P.O. BOX 81 – TRUSSVILLE, ALABAMA  35173-0081
Phone: 205/655-3271    Fax: 800/654-5980

e-mail: sales@amerex-fire.com    Web Page: http://www.amerex-fire.com
INSPECTING THE EXTINGUISHER

This extinguisher should be inspected at regular intervals (monthly or more often if circumstances require) to insure that it is ready for use.

INSPECTION - A “quick check” should be made of the extinguisher for the following:

1. Located in designated place.
2. No obstructions to access or visibility.
3. Operating instructions on nameplate (label) and facing outward.
4. Seals and tamper indicators not broken or missing.
5. Determine fullness by weighing or "hefting".
6. Examine for obvious physical damage, corrosion, leakage or clogged nozzle.
7. Pressure gauge reading in the operable area.

MAINTENANCE – SERVICE PROCEDURE

MAINTENANCE At least once a year (or more frequently if indicated by an inspection), maintenance should be performed. Maintenance is a “thorough check” of the extinguisher. It is intended to give maximum assurance that an extinguisher will operate effectively and safely. It includes a thorough examination and any necessary repair or replacement. It will normally reveal the need for hydrostatic testing.

1. Clean extinguisher to remove dirt, grease or foreign material. Check to make sure that the instruction nameplate is securely fastened and legible. Inspect the cylinder for corrosion, abrasion, dents or weld damage. If any of these conditions are found and you doubt the integrity of the cylinder, hydrostatically test, using the proof pressure method and a suitable cage, in accordance with CGA Pamphlet C-1 and NFPA Pamphlet 10. NOTE: When cleaning avoid use of solvents around the pressure gauge. They could seriously damage the plastic gauge face.
2. Inspect the extinguisher for damaged, missing or substitute parts. Only factory replacement parts are approved for use on Amerex fire extinguishers.
3. Check the date when last recharged. The foam charge must be replaced every three years with the proper Amerex charge (model 502/504 AR-AFFF charge for models 250, 252 and 254). If the extinguisher is to be hydrostatically tested, do not reuse the charge even if within a three year cycle (the foaming action will make it almost impossible to get complete charge back into the extinguisher).
4. Weigh extinguisher and compare with weight printed on the Maintenance section of the nameplate (label). Recharge extinguisher if weight is not within the indicated allowable tolerances.
5. Check the date of manufacture on the extinguisher hanger loop or on the extinguisher nameplate. Cylinder must be hydrostatically tested every 5 years to the test pressure indicated on the label.
6. Visually inspect the pressure gauge:
   a. If bent, damaged or improper gauge, depressurize and replace
   b. If pressure is low, check for leaks
   c. If over pressurized (overcharged), depressurize (discharge) and follow recharging instructions.

7. Inspect the footstand (base). If cracked or broken replace with proper footstand.

8. Inspect ring pin for freedom of movement by breaking the seal and removing the pin. Replace the ring pin if bent or if removal is difficult.

9. Inspect discharge lever for dirt or corrosion that might impair freedom of movement. Inspect carrying handle for proper installation. If lever, handle or rivets are damaged or distorted, replace with proper Amerex part(s).

10. Remove hose assembly, inspect hose assembly for damage, replace as necessary. Blow air through hose assembly to insure passage is clear of foreign material.

11. Inspect the valve assembly for corrosion or damage to hose thread connections. Replace valve assembly or component parts as necessary following the proper depressurization and recharge procedures.

12. Install hose and nozzle assembly.

13. Install new tamper seal and record service data on the extinguisher inspection tag.

14. Rehang the extinguisher on the wall hanger bracket making sure that it fits the hanger bracket properly – replace the bracket if necessary.

**RECHARGE**

RECHARGING is the replacement of the extinguishing agent and includes the expellant for this type of extinguisher.

**THE FIRE EXTINGUISHING AGENT IN THIS EXTINGUISHER MUST BE COMPLETELY REPLACED EVERY THREE YEARS.** Use only the Amerex Model 502/504 AR-AFFF charge to retain the UL approval and manufacturer’s warranty. Substitute charges could make the extinguisher less effective.

**WARNING:**

a. Before attempting to recharge be sure this extinguisher is completely depressurized.

b. Use a regulated nitrogen pressurizing source. Set the regulator no more than 125 psi (862 kPa) higher than the gauge operating pressure.

c. Check and calibrate regulator gauge at frequent intervals. The regulator gauge should be used to determine when the intended charging pressure has been reached. Do not use the extinguisher gauge for this purpose.

d. Never leave an extinguisher connected to a regulator of a high pressure source for an extended period of time. A defective regulator could cause the cylinder to rupture due to excessive pressure.
RECHARGING PROCEDURE

1. Complete the “Maintenance-Service Procedure”, items 1 thru 11.
2. Discharge all remaining pressure and foam solution.
3. Remove the valve assembly and disassemble by removing downtube assembly, spring and valve stem from the valve assembly. Remove the collar O-ring from the valve assembly. Remove collar O-ring from the valve and plastic fill tube from the cylinder.
4. Thoroughly rinse all parts with clean water and wipe dry with a soft cloth. Inspect the valve components and replace the collar O-ring and valve stem with new components. Lubricate the collar O-ring and small O-ring on the valve stem with Bluesil V-711 (do not lubricate the valve stem seal). Inspect the downtube. If it is cracked or deformed replace with proper downtube (see Parts List). Inspect downtube O-ring, replace if necessary.
5. Rinse the cylinder with clean, fresh water and inspect the interior following CGA Visual Inspection Standard C-6.
6. Firmly replace the plastic fill tube.
7. Refill the extinguishers as follows:
   a. Models 250 and 252 2-1/2 gal. AR-AFFF Premix
      1. Fill a clean bucket with 2.33 gallons (8.82 liters) [19.34 lbs. (8.77kg)]of clean tap or distilled water. Continue with steps b2 through b4.
   b. Model 254 6 Liter AR-AFFF Premix
      1. Fill a clean bucket with 1.41 gallons. (5.34 liters) [11.70lbs. (5.31 kg)] of clean tap or distilled water.
      2. Add an Amerex 502/504 AR-AFFF charge to the water.
      3. Mix water and foam charge slowly and thoroughly in the bucket (paint stirrer and electric drill work well).
      4. Pour the well mixed foam charge into the cylinder using a long spout funnel, filling from the bottom of the cylinder to reduce foaming.
   Alternatively, on an accurate scale:
   c. Models 250 and 252 2-1/2 gal. AR-AFFF Premix
      1. Fill cylinder with 2.33 gallons (8.82 liters) [19.34 lbs (8.77kg)]of clean tap or distilled water. Continue with steps d2 through d4.
   d. Model 254 6 Liter AR-AFFF Premix
      1. Fill cylinder with 1.41 gallons (5.34 liters) [11.70lbs. (5.31 kg)] of clean tap or distilled water.
      2. Slowly add an Amerex 502/504 AR-AFFF charge to the water. The liquid level should now be close to the bottom of the fill tube.
      3. If necessary add water very slowly to bring the liquid to this level.
      4. Mix water and foam charge thoroughly in the cylinder (a “mix-stir” wine degasser tool and electric drill work well).
    8. Install a “Verification of Service” collar around neck of cylinder. Install valve assembly to the cylinder and properly align. Shake the extinguisher to assure a thorough mix of the foam solution. CAUTION: HAND TIGHTEN THE VALVE COLLAR NUT 100-125 IN LBS. MAX. (1.15-1.44 KG/m). OVER-TIGHTENING WITH A WRENCH WILL DAMAGE THE VALVE.
9. Install a P/N 02141 Fill (Pressurizing) Adapter on the valve outlet (where the hose assembly attaches) and pressurize with nitrogen to 100 psi (690 kPa). The pressure regulator should be set to no more than 125 psi (862 kPa). Remove Fill Adapter.

10. Check the collar, gauge, cylinder welds and valve orifice for leaks using a leak detection fluid or a solution of soapy water. Remove leak detection fluid from the valve assembly by blowing out with air and wipe exterior of the extinguisher to dry.

11. Install hose assembly into the operating valve. Torque swivel nut lightly with a 15/16” wrench. Install in hose clip.

12. Install ring pin with ring facing front of the extinguisher. Install new tamper seal. Record recharge date and attach new recharge tag.

13. Weigh assembled extinguisher and confirm that the total weight is within the allowable tolerances indicated in the Maintenance section on the extinguisher nameplate (label).

## TROUBLESHOOTING GUIDE

**WARNING:** Determine the source of a leak before the extinguisher is depressurized. THE EXTINGUISHER MUST BE COMPLETELY DEPRESSURIZED BEFORE ANY ATTEMPT IS MADE TO DEVALVE IT AND CORRECT ANY LEAKAGE PROBLEM. To depressurize – hold the extinguisher in an inverted position and slowly squeeze the discharge handle. Some liquid remaining in the downtube will be discharged so care should be taken in the area used for depressurization. Thoroughly clean all valve parts after depressurization and valve removal.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Leak at collar O-ring</td>
<td>Remove valve assembly, clean collar (knurled) nut thoroughly and install new O-ring. Lubricate the O-ring with Bluesil V-711 (P/N 06247).</td>
</tr>
<tr>
<td>2. Leak through valve</td>
<td>Install new valve stem assembly. Check valve seat for scratches or foreign matter.</td>
</tr>
<tr>
<td>3. Leak around gauge threads</td>
<td>Remove gauge* and reinstall using Teflon tape on the gauge threads.</td>
</tr>
<tr>
<td>4. Defective gauge</td>
<td>Remove defective gauge* and install a new gauge using Teflon tape on the gauge threads.</td>
</tr>
<tr>
<td>5. Leak in the cylinder</td>
<td>Contact Amerex if under warranty, otherwise mark &quot;Rejected&quot; and return to owner.</td>
</tr>
<tr>
<td>6. Broken footstand</td>
<td>Install new footstand (see parts list)</td>
</tr>
</tbody>
</table>

* Pressure gauge threads are coated with a special epoxy at the factory. For easy removal soak the valve assembly (minus the downtube assembly) in hot water (180°F/82°C) for two to four minutes. Remove gauge with a 7/16” open end wrench.
## PARTS LIST
for
6 Liter and 2½ Gal.
Water & Foam Models

250 - 2 1/2 Gallon AR-AFFF Foam
252 - 2 1/2 Gallon FFFF Foam
254 - 6 Liter AR-AFFF Foam

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NO</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>17616</td>
<td>Valve Assembly - 250, 252, 254 w/o air valve</td>
</tr>
<tr>
<td>1A</td>
<td>14380</td>
<td>Hanger Loop with Screw (OPTIONAL ON FOAM)</td>
</tr>
<tr>
<td>2</td>
<td>06978</td>
<td>Hose Gasket (O-Ring)</td>
</tr>
<tr>
<td>3</td>
<td>07000</td>
<td>Hose &amp; Aspirated Black Nozzle Assembly - 250</td>
</tr>
<tr>
<td>3B</td>
<td>06982</td>
<td>Hose &amp; Aspirated Gray Nozzle Assembly - 252</td>
</tr>
<tr>
<td>4</td>
<td>00160</td>
<td>Ring, Pin Stainless Steel</td>
</tr>
<tr>
<td>4A</td>
<td>00532</td>
<td>Chain (Nylon) for Ring Pin</td>
</tr>
<tr>
<td>5</td>
<td>01387</td>
<td>Lock Wire Seal (Yellow)</td>
</tr>
<tr>
<td>6</td>
<td>07762</td>
<td>Lever &amp; Rivet - ALL MODELS</td>
</tr>
<tr>
<td>6A</td>
<td>01563</td>
<td>Rivet Only for Lever</td>
</tr>
<tr>
<td>7</td>
<td>00620</td>
<td>Handle &amp; Rivets - ALL MODELS</td>
</tr>
<tr>
<td>7A</td>
<td>01564</td>
<td>Rivets Only for Handle (2 Required)</td>
</tr>
<tr>
<td>8</td>
<td>06479</td>
<td>Gauge - 100 PSI (S/S Tube)</td>
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<tr>
<td>9</td>
<td>05240</td>
<td>Collar O-Ring</td>
</tr>
<tr>
<td>10</td>
<td>06983</td>
<td>Valve Stem Assembly</td>
</tr>
<tr>
<td>11</td>
<td>00383</td>
<td>Spring</td>
</tr>
<tr>
<td>12</td>
<td>02595</td>
<td>Fill Tube</td>
</tr>
<tr>
<td>13</td>
<td>05690</td>
<td>O-Ring Dowtube / Retainer</td>
</tr>
<tr>
<td>14</td>
<td>15943</td>
<td>Dowtube/Retainer Assy - 250, 252</td>
</tr>
<tr>
<td>15</td>
<td>15941</td>
<td>Dowtube/Retainer Assy - 254</td>
</tr>
<tr>
<td>15</td>
<td>03776</td>
<td>Foot Stand with Post (Black) - 250, 252</td>
</tr>
<tr>
<td>15</td>
<td>03169</td>
<td>Foot Stand (Black) - 254</td>
</tr>
<tr>
<td>16</td>
<td>14776</td>
<td>Strap &amp; Clip Assembly (Model 254 Only)</td>
</tr>
<tr>
<td>17</td>
<td>21777</td>
<td>Rubber Footstand 7&quot;</td>
</tr>
<tr>
<td>*</td>
<td>21854</td>
<td>Rubber Footstand Adhesive</td>
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</tbody>
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**ALL BRACKETS - SEE BRACKET PAGE**

**ALL FILL & HYDROTEST ADAPTERS - SEE ADAPTERS PAGE**

All Valve Assemblies Include Valve Body, Gauge, Collar Nut, O-Ring, Lever and Handle

* Not Shown