



## INSPECTION, MAINTENANCE & RECHARGE SERVICE MANUAL

NO. 05601

for

### AMEREX MODEL 240

2 ½ GALLON STORED PRESSURE STAINLESS STEEL WATER  
FIRE EXTINGUISHERS

**\*\*\* RECHARGE FIRE EXTINGUISHERS IMMEDIATELY AFTER ANY USE \*\*\***

#### WARNING

DO NOT USE THIS EXTINGUISHER ON CLASS C FIRES INVOLVING ENERGIZED ELECTRICAL EQUIPMENT, CLASS D FIRES OR ANY FLAMMABLES THAT WILL REACT WITH WATER. PROTECT FROM FREEZING UNLESS CHARGED WITH AN AMEREX MODEL 506 LOADED STREAM/ANTI -FREEZE CHARGE.

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 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 of Compressed Gas Cylinders

#### AVAILABLE FROM:

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

Compressed Gas Association, Inc.  
4221 Walney Road, 5<sup>th</sup> Floor  
Chantilly, VA 20151-2923

AMEREX CORPORATION DOES NOT SERVICE, MAINTAIN OR RECHARGE FIRE EXTINGUISHERS. THIS MANUAL IS PUBLISHED AS A GUIDE TO ASSIST SERVICE PERSONNEL IN THE INSPECTION, MAINTENANCE AND RECHARGE OF AMEREX FIRE EXTINGUISHERS ONLY. NO INSTRUCTION MANUAL CAN ANTICIPATE ALL POSSIBLE MALFUNCTIONS THAT MAY BE ENCOUNTERED IN THE SERVICE OF FIRE EXTINGUISHERS. AMEREX ASSUMES NO LIABILITY FOR SERVICE, MAINTENANCE OR RECHARGE OF FIRE EXTINGUISHERS BY PUBLISHING THIS MANUAL.

AMEREX CORPORATION - P.O. BOX 81 - TRUSSVILLE, ALABAMA 35173-0081

Phone: 205/655-3271 Fax: 800/654-5980

e-mail: [sales@amerex-fire.com](mailto:sales@amerex-fire.com) Web Page: <http://www.amerex-fire.com>

## INSPECTION

This extinguisher should be INSPECTED at regular intervals (monthly or more often if circumstances dictate) to insure that it is ready for use. INSPECTION (NFPA 10 6.2) is a "quick check" that an extinguisher is available and will operate. It is intended to give reasonable assurance that the extinguisher is fully charged and operable. This is done by seeing that it is in its designated place, that it has not been actuated or tampered with, and that there is no obvious physical damage or condition to prevent operation.

## MAINTENANCE

At least once a year (or more frequently if indicated by an inspection) MAINTENANCE (NFPA 10 6.3) 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.

## MAINTENANCE/SERVICE PROCEDURE

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 C-6 and NFPA 10. **NOTE: When cleaning avoid the 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. Weigh extinguisher and compare with weight printed on the maintenance section of the nameplate. Recharge if weight is not within the indicated allowable tolerances.
4. Check the date of manufacture on the extinguisher hanger loop. Cylinder must be hydrostatically tested every 5 years to the test pressure indicated on the nameplate.
5. 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) reduce to 100 psi (690 kPa) through the pressure valve and check for leaks
6. Inspect the footstand (base). If cracked or broken replace with the appropriate footstand (see Parts List).
7. Inspect ring pin for freedom of movement. Replace if bent or if removal appears difficult.
8. 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 parts.
9. Remove hose & nozzle assembly. Inspect hose gasket (o-ring), hose and nozzle assembly for damage, replace as necessary. Blow air through hose & nozzle to insure passage is clear of foreign material.
10. Examine the air pressurizing valve (Schradler) for damage. The cap should be in place to prevent leaking. 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.
11. Install hose and nozzle assembly.
12. Install new tamper seal if broken and record service data on the extinguisher inspection tag.
13. Rehang the extinguisher on the wall hanger bracket making sure that it fits the hanger bracket properly - replace the bracket if necessary. **Note: When a Loaded Stream/Anti-freeze charge is used to freeze protect this extinguisher, a complete discharge and maintenance is required ANNUALLY. Use only the Amerex Model 506 charge and follow the instructions printed on the carton.**

## RECHARGE

RECHARGING (NFPA 10 6.4) is the replacement of the extinguishing agent and also includes the expellant for this type of extinguisher.

- WARNING:
- a. Before attempting to recharge be sure this extinguisher is completely depressurized.
  - b. Use a REGULATED pressurizing source (either air or nitrogen). Set the regulator no more than 25 psi (175 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 through 10.
2. Discharge all remaining pressure and water (or anti-freeze solution) making sure there is no remaining air pressure.
3. Remove the valve assembly and disassemble by removing downtube assembly (use a wrench on the brass retainer, not the plastic tube), spring and valve stem 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. Blow the valve out with air or nitrogen. Inspect the collar o-ring, valve stem and spring - replace parts if worn or damaged. Lubricate the collar o-ring and small o-ring on the valve stem with Visilox V-711 (do not lubricate the valve stem seal). Inspect the downtube. If it is cracked, deformed or does not have a threaded brass spring retainer replace with P/N 00404. Inspect downtube o-ring, replace if necessary.
5. Rinse the cylinder with clean water and inspect the interior following CGA Visual Inspection Standard C-6.
6. Firmly replace the plastic fill tube and fill cylinder with clean water until it overflows (2½ U.S. gallons [9½ liters]).

NOTE: THE AMEREX WARRANTY DOES NOT COVER STAINLESS STEEL EXTINGUISHERS FILLED WITH WATER WHICH CONTAINS IN EXCESS OF 40 PPM OF CHLORIDES. IN MANY AREAS WATER INCLUDES HIGH LEVELS OF CHLORIDES. THE AMEREX MODEL 507 CORROSION INHIBITOR SHOULD BE USED IN ALL CASES WHERE THE CHLORIDE CONTENT OF THE WATER IS SUSPECT.

7. Install a "Verification of Service" collar around the neck of the cylinder. Install valve assembly to the cylinder and properly align. **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.**
8. Remove cap from the air pressurizing valve on the side of the valve body and pressurize with 100 psi (690 kPa) using air or nitrogen. NOTE: A 02141 fill adapter may also be used by installing to the female valve outlet (where the hose assembly attaches). The pressure regulator should be set to no more than 125 psi (862 kPa). Replace pressure valve cap. The cap must be in place to insure that valve will not leak.
9. Check the collar, gauge, air pressurizing valve, cylinder welds and valve orifice for leaks using 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.
10. Install hose and nozzle assembly.
11. Install ring pin with ring facing front of extinguisher. Install new tamper seal. Record recharge date and attach new recharge tag.
12. Weigh assembled extinguisher and confirm that the total weight is within the allowable tolerances indicated in the Maintenance section on the extinguisher nameplate.

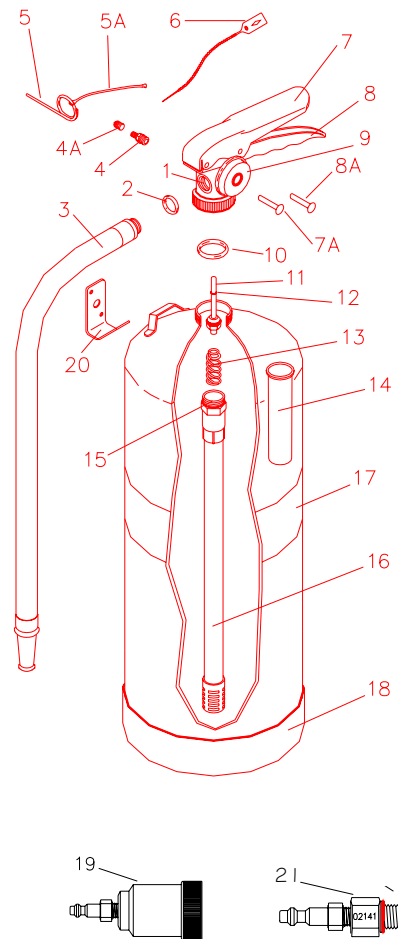
### TROUBLESHOOTING GUIDE

**WARNING:** Determine the source of a leak before the extinguisher is depressurized. **THE EXTINGUISHER MUST BE COMPLETELY DEPRESSURIZED BEFORE ANY ATTEMPT IS MADE TO DEVALUE IT AND CORRECT ANY LEAKAGE PROBLEM.** To depressurize hold the extinguisher in an inverted position and slowly squeeze the discharge handle. Some water 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.

	PROBLEM	CORRECTIVE ACTION
1	Leak at collar o-ring	Remove valve assembly, clean collar (knurled) nut thoroughly and install new o-ring. Lubricate o-ring with Visilox V-711.
2	Leak through valve	Install new valve stem assembly. Check valve seat for scratches or foreign matter
3	Leak around gauge threads	Remove gauge* and reinstall using Teflon tape on the gauge threads.
4	Defective gauge	Remove defective gauge* and install a new P/N 06479 gauge using Teflon tape on the gauge threads.
5	Leak in cylinder	Contact Amerex if under warranty, otherwise mark "REJECTED" and return to owner.
6	Broken footstand	Install new P/N 02520 footstand using Dow corning RTV-732 Silicone Rubber adhesive, Amerex P/N 04488.
*	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**  
**2 ½ GALLON STAINLESS STEEL STORED PRESSURE**  
**WATER EXTINGUISHER**  
**(BRASS VALVE)**  
**MODEL 240**

ITEM NO.	PART NO.	DESCRIPTION	STD. PKG.
1	13281	Valve Ass'y - 240	1
2	06978	Hose Gasket (O-Ring)	24
3	06999	Hose & Nozzle Ass'y	1
4	00155	Pressure Vlv & Cap Ass'y - 240 only	1
4A	00158	Cap only for Pressure Vlv - 240 only	1
5	00160	Ring Pin, Stainless Steel	24
5A	00532	Chain (Nylon) for Ring Pin	24
6	01387	Lock Wire Seal (Yellow)	500
7	07762	Lever & Rivet	1
7A	01563	Rivet Only for Lever	24
8	09020	Handle & Rivets	1
8A	01564	Rivet Only for Handle (2 required)	24
9	06479	Gauge 100 psi (Stainless Steel Tube)	1
10	05240	Collar O-ring Collar O-ring (Bulk Bag)	24 100
11	06093	Valve Stem Ass'y Valve Stem Ass'y (Bulk Bag)	6 96
12	05243	Valve Stem O-Ring	24
13	00383	Spring	6
14	02595	Fill Tube	1
15	05690	O-Ring-Downtube/Retainer	12
16	00404	Downtube/Retainer Ass'y - 240	1
17		Nameplate (label) non UL - SPECIFY MODEL NO. OF EXTINGUISHER	1
18	02520	Foot Stand w/clip (Black) - 240	1
19	03181	Hydrotest Adapter	1
20	01007	Wall Bracket	6
21	02141	Pressurizing Adapter	1
<input checked="" type="checkbox"/>	01928	Model 506 Loaded Stream anti-freeze charge - Model 240 only	1
<input checked="" type="checkbox"/>	06247	Visilox Lubricant (5 oz. tube)	1
<input checked="" type="checkbox"/>	04488	Adhesive (footstand) 3 oz. tube	1
NOTE: ALL VALVE ASSEMBLIES INCLUDE NEW VALVE BODY, GAUGE, KNURLED NUT, LEVER & HANDLE AND PRESSURE VALVE			
<input checked="" type="checkbox"/>		PART NOT PICTURED	



AMEREX CORPORATION  
Trussville, AL 35173