

OWNER'S SERVICE MANUAL

INSTALLATION, OPERATING, & SERVICING INSTRUCTIONS



MANUAL NO. 27085

**HIGH PERFORMANCE STORED PRESSURE
125 & 250 LB. DRY CHEMICAL
Z-SERIES WHEELED FIRE EXTINGUISHERS
MODELS 756, 757, 758, & 759**

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 may be incorrectly labeled as UL component parts, some are advertised as Amerex type. None of these meet UL requirements and all of them voids the Amerex extinguisher warranty and UL listing. **DO NOT SUBSTITUTE.**

RECHARGE FIRE EXTINGUISHERS IMMEDIATELY AFTER ANY USE

REFERENCES IN THIS MAUNUAL:

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, 5th Floor Chantilly, VA 20151-2923

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

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

e-mail: customer.service@amerex-fire.com Web Page: <http://www.amerex-fire.com>

THIS MANUAL IS ATTACHED TO EVERY NEW EXTINGUISHER SHIPPED FROM THE FACTORY. IT CONTAINS VALUABLE INFORMATION WHICH SHOULD BE STUDIED BY EVERYONE WHO WILL USE OR SERVICE THE EXTINGUISHER. THE MANUAL SHOULD BE STORED IN A CONVENIENT LOCATION FOR EASY REFERENCE.

INTRODUCTION

The Amerex Models 756 (ABC), 757 (Regular) 758 (Purple K) & 759 (Purple K) Stored Pressure Wheeled Dry Chemical fire extinguishers are designed to provide larger volumes of dry chemical fire fighting agent for extra high hazard industrial applications in a unit which can be transported and operated by one person. These extinguishers are the culmination of several years of research, field trials and listening to the suggestions and particular needs of potential end users. High pressure delivers the chemical at a range, volume and velocity particularly suited for the needs of many critical industrial hazards. The cage type carriage configuration provides protection for the operating valve, cylinder and hose assembly. Lift points are incorporated into the carriage frame so that these units can be easily on/off loaded at off-shore platforms or placed by a crane into remote areas in land based installations. Models 756, 757, 758 & 759 feature large 36 inch wheels to assure minimum effort for one person to quickly transport them to a fire scene.

Maximum protection from severe corrosive environment is afforded by the Amerex corrosion resistant metal preparation and paint finish. The operating valve, handle, gauge guard, fill cap, hose couplings and ball type shutoff are brass, or brass, chrome plated for years of trouble free use. These models carry an extended Amerex warranty of twelve (12) years excluding abuse, hydrotest, carriage, wheels and hose assembly. See full wording of the warranty and unique, fire equipment industry first, refurbishing program.

Field recharging is possible utilizing maintenance/recharge equipment available through your Amerex Distributor. To provide optimum extinguisher reliability, recharging should be performed by persons trained in fire extinguisher maintenance and servicing. This manual should be used as a guide for installing, operating and servicing this extinguisher. The best place to have your extinguisher serviced and recharged is your Authorized Amerex Distributor who has the professional experience and equipment to do it properly.

INSPECTING THE EXTINGUISHER

This extinguisher should be inspected at regular intervals (monthly or more often if circumstances dictate) to insure that it is ready for use. Inspection is a "quick check" that a fire extinguisher is available and is in operating condition. It is intended to give reasonable assurance that the fire extinguisher is fully charged. This is done by verifying 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 its operation.

PREPARING YOUR NEW EXTINGUISHER FOR USE

1. Examine the extinguisher for evidence of shipping damage. Notify the delivering carrier immediately if any damage is discovered.
2. Remove all wrappings, straps and pallet retaining bolts.
3. Check to insure that the hose connection to the operating valve and shut-off nozzle to the hose are tight.
4. Check to insure that the shut-off nozzle is in the closed position. The ring (safety) pin should be installed in the operating valve and the lockwire (tamper) seal intact.
5. Visually inspect the safety relief on the discharge valve for evidence of obstruction or damage. (DO NOT REMOVE)
6. Check to make sure that the cap is on the "bleeder valve" (located on the side of the extinguisher operating valve). The pressure seal is in the cap and it must be in place to prevent leakage.
7. This extinguisher is shipped from the factory fully charged. Visually inspect the pressure gauge—the pressure should be in the green zone (350 psi ± approx. 15 psi range or 240 psi ± approx. 10 psi for 759). The most accurate method to determine if the extinguisher is filled with the proper amount of chemical is to weigh the unit. The gross weight is indicated on the nameplate (label).

NOTE: Slight pressure variances in the gauge reading may be found if the extinguisher has been subjected to extremes of heat or cold. High temperatures can cause high gauge readings and low temperatures, low readings. When in doubt, condition the extinguisher to 70°F (21°C) for several hours to obtain more accurate pressure gauge readings.

- Record the date the unit is being placed into service on the inspection tag and attach it to the extinguisher.

INSTALLATION

Do not place this extinguisher close to a potential fire hazard. Amerex recommends location no less than a 50 foot distance from the hazard while leaving an unobstructed access. Avoid placing it in an extremely hot or cold place. The operational temperature range for this extinguisher is -40° to +120°F (-40° to +49°C). The extinguisher should be adequately protected if temperatures outside of this range are anticipated. Keep the extinguisher clean and free from dirt, ice, chemicals and any contaminants which may interfere with its proper operation. Do not functionally test this fire extinguisher. (Testing or any use may cause the extinguisher to gradually lose pressure and become ineffective.)

OPERATION

NOTE: Persons expected to use this extinguisher should be trained in initiating its operation and in the proper fire-fighting technique. Familiarize all personnel with this information before an emergency occurs.

- Move the extinguisher to within approximately 50 feet of the fire site. Keep the extinguisher upright.

CAUTION: This extinguisher must be operated in an upright position. If equipped with an optional tow loop and vehicle towed to the fire scene, remove from tow hitch and operate in a vertical position.

- Twist and pull ring pin. Open cylinder discharge valve by rotating (pulling) the handle valve lever toward
- Pull nozzle, with lever in the closed position, from the mount and extend the hose from the storage rack.
- Stand back 30 feet from the fire and aim the nozzle at base of flames nearest you. Open nozzle by pulling handle toward you

(WARNING: this extinguisher operates at high pressure - be prepared for a discharge recoil by holding the nozzle firmly).

- Sweep side to side across the base of the fire and past both edges. Progressively follow up until the fire is extinguished. Work the fire away from you while being alert for flashbacks. Move closer as the fire is extinguished but not so close as to scatter or splash the burning materials.
- When the fire is out, push the hose (discharge) lever forward to the closed position. Stand by and watch for possible re-ignition.
- Evacuate and ventilate the area immediately after extinguishing the fire. The fumes and smoke from any fire may be hazardous and can be deadly.

DISCHARGE TIME:
756 ABC – 50 Seconds
757 REGULAR – 38 Seconds
758 PURPLE K – 38 Seconds
759 PURPLE K – 30 Seconds

**EFFECTIVE RANGE OF AGENT THROW IS 50 TO 70 FEET
HOSE LENGTH – 50 FEET**

SHUTDOWN

CAUTION: BEFORE PERFORMING THE SHUTDOWN PROCEDURE AND PREPARING TO MOVE THE EXTINGUISHER TO THE RECHARGE LOCATION, DETERMINATION MUST BE MADE THAT THE FIRE IS COMPLETELY EXTINGUISHED AND THERE IS NO DANGER OF A FLASHBACK.

1. Tip the extinguisher to the horizontal position (resting on the carriage handle) and slowly rotate the cylinder discharge valve lever to the open position. Slowly push the hose (discharge) nozzle lever to the open position and be prepared for some chemical discharge.
2. When all pressure has been evacuated from the extinguisher, return the hose (discharge) nozzle lever and cylinder discharge valve lever to the closed position.

NOTE: These steps will allow easy depressurization of the extinguisher and clear the hose assembly with a minimal loss of remaining chemical.

3. Return the extinguisher to the upright position. Coil the hose onto the hose support rack and position the nozzle into the mount in preparation for transport to the recharge location.

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PERIODIC INSPECTION PROCEDURES (Monthly or more often if circumstances dictate)

Periodic inspection of fire extinguishers shall include a check of at least the following items:

1. Location in designated place.
2. No obstruction to access or visibility.
3. Pressure gauge reading or indicator in the operable range or position.
4. Operating instructions on nameplate and facing outward.
5. Safety seals and tamper indicators not broken or missing.
6. Examination for obvious physical damage, corrosion, leakage, or clogged nozzle.
7. Determine fullness by weighing.
8. Check condition of wheels (rotate freely), carriage, hose & nozzle.

MAINTENANCE

At least once a year or more frequently if circumstances require, maintenance should be performed in accordance with NFPA-10. Maintenance is a "thorough check" of the extinguisher. It is intended to give maximum assurance that a fire extinguisher will operate effectively and safely. It includes a thorough examination for physical damage or condition to prevent its operation and any necessary repair or replacement. It will normally reveal if hydrostatic testing or internal maintenance is required.

MAINTENANCE – PROCEDURE

NOTE: THIS PROCEDURE WILL BE BEST ACCOMPLISHED WITH THE EXTINGUISHER IN AN UPRIGHT POSITION AND ON A LEVEL SURFACE.

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 cylinders for corrosion, abrasion, dents or weld damage. If any damage is found, hydrostatically test to factory test pressure using the proof pressure method, in accordance with instructions in C-6 and NFPA-10. See proper method of depressurizing and reclaiming chemical in Recharge procedures.

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.

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2. Inspect the extinguisher for damaged, missing or substitute parts. Only factory replacement parts are approved for use on Amerex fire extinguishers.

3. Weigh the extinguisher and compare with weight printed in the "Maintenance" section on the nameplate (label). Recharge extinguisher if weight is not within indicated allowable tolerances.
4. Check the date of manufacture on the extinguisher dome. Cylinder must be hydrostatically (proof pressure) tested every 12 years (first time), every 7 years thereafter, to the test pressure indicated on the nameplate (900psi / 6205 kPa) or (500psi / 3447 kPa) for 759. Cylinder may be hydrostatically tested every 12 years using the water jacket method.
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) depressurize the extinguisher and follow recharge instructions.
6. Check ring pin for freedom of movement. Replace if bent, or if removal appears difficult.
7. Visually inspect, without removing, the agent fill plug for damage or distortion. Replace as necessary only after proper depressurization procedures have been performed (see complete Maintenance – Six Year Teardown instructions). Check the nozzle shutoff lever for freedom of movement (open and close several times). If the operation is impeded, disassemble the nozzle, replace parts and/or properly lubricate as necessary. Make sure that the nozzle tip is clear and unobstructed.
8. After making sure that there is no residual pressure in the discharge hose, disconnect it from the operating valve. Blow air through the hose and nozzle assemblies to insure that the passage is clear of foreign material. Check the couplings, hose and hose gasket for damage or deterioration – replace as necessary.
9. Inspect the valve assembly for corrosion or damage to hose thread connection. Replace valve assembly or component parts as necessary following the proper depressurization and recharge procedures. If valve removal is necessary, complete all steps in the Complete Maintenance Procedure.
10. Reconnect the hose to the agent cylinder. Properly coil the hose on the rack and install the nozzle (with the lever in a closed position) on the mount.

NOTE: WHEN ASSEMBLING THE HOSE TO THE AGENT CYLINDER OR NOZZLE TO THE HOSE, TIGHTEN THE COUPLING ¼ TURN AFTER CONTACTING THE HOSE GASKET.

11. Inspect the wheels to insure they rotate freely. Lubricate as required
12. Check carriage assembly for loose nuts, bolts, frame distortion or damage. Check welds for damage or corrosion. Replace damaged parts or make repairs as necessary.
12. Install new lock wire (tamper) seal and record service data on the extinguisher inspection tag.
13. If the extinguisher has been moved to perform service, make sure that it is returned to its proper location.

COMPLETE MAINTENANCE – SIX YEAR TEARDOWN

Every six years, stored pressure extinguishers that require a 12 year hydrostatic test shall be emptied and subjected to the applicable maintenance procedures. When the applicable maintenance procedures are performed during periodic recharging or hydrostatic testing, the six year requirement shall begin from that date.

NOTE: Some states have legislation which requires "Complete Maintenance" on an annual basis. Please contact your local Amerex Distributor to see if these requirements apply to you. NFPA-10 recommendation requires that a "verification of service" external collar tag be installed on the extinguisher whenever a Six Year Maintenance is performed. The "verification of service" tag can only be installed if the operating valve has been removed.

1. Discharge chemical and pressure into a "closed" dry chemical recovery system (several are commercially available). **Make sure that the extinguisher is completely empty and depressurized.**

CAUTION: Some of these extinguishers operate at 350 psi. Some recovery systems may require that the pressure be reduced to safely discharge the chemical and pressure into the system. Use the pressure bleeder valve on the extinguisher valve to reduce the pressure to a point registering just below the green operable area on the pressure gauge. Discharge extinguisher into recovery system. Re-pressurize the extinguisher (to no more than 200 psi) to exhaust any chemical remaining in the extinguisher.

NOTE: A "closed recovery system is designed to prevent loss of the chemical "fines" Loss of the "fines" could result in reduced extinguisher efficiency.

2. 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 to factory test pressure marked on the nameplate (label) in accordance with CGA C-1 and NFPA-10 and DOT regulations.

NOTE: When cleaning, avoid use of solvents around the pressure gauge. They could seriously damage the plastic gauge face.

3. Inspect the extinguisher for damaged, missing or substitute parts. Only factory replacement parts are approved for use on Amerex fire extinguishers.
4. Check the date of manufacture on the extinguisher dome. Cylinder must be hydrostatically (proof pressure) tested every 12 years (first time) to the test pressure indicated on the nameplate (900 psi / 6205 kPa) or (500 psi / 3447 kPa) for 759. Cylinder may be hydrostatically tested every 12 years using the water jacket method.
5. Visually inspect the pressure gauge – if bent, damaged or improper gauge replace with the proper Amerex pressure gauge (see Parts List).
6. Check ring pin for freedom of movement. Replace if bent or if removal appears difficult.
7. **Verify that no pressure remains in the extinguisher.** (Operating valve and nozzle shutoff in open position and there is no discharge). Remove and inspect the agent fill cap for damage or distortion.

Guide to Proper Installation of Hose on Wheeled Dry Chemical Fire Extinguishers



1

Connect hose coupling to outlet on the extinguisher. Lay hose straight on ground to its full 25 ft. length. Start first regular loop counter-clockwise by placing between side brackets and over top bracket.



2

The second loop is a REVERSE loop. Notice that the hose passes behind the loop on this reverse loop. **If instructions are followed, the hose will uncoil without kinks.**



3

The next loop is a regular "hose in front" loop. Succeeding loops are alternated: reverse, front, reverse, etc. for six full loops.



4

Adjust the loops so that the nozzle fits into the nozzle mount. Loops should be approximately the same size.



PARTS LIST

for

125/250 lb. Dry Chemical

Z-Series High Performance Wheeled Units

756 – 250 lb. ABC

757 – 250 lb. REG

758 – 250 lb. PK

759 – 125 lb. PK



Item No.	Part No.	Description
1	08715	Valve Assembly Complete with Downtube
	05197	Valve Assembly Complete with Downtube - 759
2	09856	Downtube/Retainer Assembly
	04938	Downtube/Retainer Assembly - 759
3	09300	Cap, Agent Cylinder
3A	08392	Gasket, Fill Cap
4	27087	Carriage Assy w/o Wheels
	27086	Carriage Assy w/o Wheels - 759
5	07481	Pictogram – 756
	07483	Pictogram – 757, 758, 759
6	27078	Hose Support Assy w/ Mounting Hardware
	27077	Hose Support Assy w/ Mounting Hardware - 759
7	27072	Wheel Assembly 36"x6" (Red)
	27071	Wheel Assembly 36"x6" (Red) with Rubber Tread
8	07389	Hub Cap with Washer and Cotter Pin
9	06059	Valve lever with Screws
10	16723	Gauge Guard Assembly
11	08714	Gauge – 350 psi
	05225	Gauge – 240 psi - 759
12	06100	Ring Pin, Stainless Steel with Wire
13	07309	Pressure Valve
	03559	Pressure Valve - 759
14	07310	Cap for Pressure Valve
	00158	Cap for Pressure Valve - 759
15	01387	Lock Wire Seal (yellow)
16	06060	Cam Assembly with O-rings
17	08573	Safety Disc Assy (except 759)
	03787	Safety Disc Assy (optional 759)
	13956	Protective Vinyl Cap
	14218	Pipe Plug - 759
18	03678	Valve Body
19	05239	Collar O-ring
20	05067	Valve Stem Assembly
21	03556	Spring
22	03877	Gasket, Hose / Nozzle
23	06279	Ball Valve Assembly
24	09399	Nozzle Tip – 756, 757 (.625)
	08260	Nozzle Tip – 758, 759 (.531)
25	06814	Hose Assembly – 50ft.
26	09543	Nozzle Assy (Ball Valve & Tip) – 756, 757
	07385	Nozzle Assy (Ball Valve & Tip) – 758, 759
27	09711	Pistol Grip