### PART, TITLE, DATE CREATED, CREATED BY, REV.

<table>
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<tr>
<th>PART</th>
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<tr>
<td>19795</td>
<td>MANUAL OWNERS SERVICE NOVEC WHEELED</td>
<td>4/5/11</td>
<td>GJ</td>
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### NOTES

<table>
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<tr>
<th>#</th>
<th>NOTES</th>
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<tr>
<td>1</td>
<td>THIS COVERSHEET FOR INFORMATIONAL PURPOSES ONLY - DO NOT PRINT THIS PAGE IN MANUAL.</td>
</tr>
<tr>
<td>2</td>
<td>DESCRIPTION: MANUAL OWNER’S SERVICE FOR NOVEC WHEELED EXTINGUISHERS</td>
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<tr>
<td>3</td>
<td>ACTUAL PRINTED MATERIAL TO CONSIST OF ATTACHED</td>
</tr>
<tr>
<td>4</td>
<td>OVERALL SIZE OF PRINTED DOCUMENT PAGES: 8-1/2” X 11” ON 20 LB PAPER</td>
</tr>
<tr>
<td>5</td>
<td>PRINTED MATERIAL TO MATCH ATTACHED IN SADDLE STITCHED BOOKLET FORM</td>
</tr>
<tr>
<td>6</td>
<td>PRINT MATERIAL IS TO BE HOLE PUNCHED 3 EACH 1/4” HOLES DOWN LEFT SIDE FOR STD 3-RING BINDER</td>
</tr>
<tr>
<td>7</td>
<td>CURRENT REVISION DATE: 4/20</td>
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<th>DRAWING CHANGE</th>
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<tr>
<td>B</td>
<td>REDO PARTS LIST; ADD TO PUBLISHER</td>
<td>GJ</td>
<td></td>
<td>5-23-12</td>
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<tr>
<td>C</td>
<td>UPDATE PARTS LIST AND PERFORMANCE SPECS FOR 775 AND 776</td>
<td>GJ</td>
<td>B000316</td>
<td>4-18-14</td>
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<tr>
<td>D</td>
<td>CORRECTED ERRORS ON PARTS LIST</td>
<td>GJ</td>
<td>B002026</td>
<td>8-14-14</td>
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<td>E</td>
<td>REFRESHED LAYOUT DESIGN</td>
<td>CT</td>
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All fire extinguishers shall be installed, inspected, and maintained in accordance with the National Fire Protection Association standard titled "Portable Fire Extinguishers", NFPA 10, or the National Fire Code of Canada and the requirements of local authorities having jurisdiction.

When maintenance is indicated, it shall 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 void the Amerex extinguisher warranty and UL listing. DO NOT SUBSTITUTE.

RECHARGE FIRE EXTINGUISHERS IMMEDIATELY AFTER ANY USE

REFERENCES IN THIS MANUAL:

NFPA 10 Portable Fire Extinguishers

CGA C-1 Methods for Pressure Testing Compressed Gas Cylinders

CGA C-6 Standard for Visual Inspection of Steel Compressed Gas Cylinders.

National Fire Code of Canada

AVAILABLE FROM:

National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471

Compressed Gas Association, 14501 George Carter Way, Chantilly, VA 20151-2923

Compressed Gas Association, 14501 George Carter Way, Chantilly, VA 20151-2923

National Research Council Canada, 1200 Montreal Road, Building M-58, Ottawa, ON K1A 0R6 Canada

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INSTALLATION

Do not place this extinguisher close to a potential fire hazard. Amerex recommends a 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 -40º to +120ºF (-40º to +49ºC). The extinguisher shall be adequately protected if temperatures outside of this range are anticipated. Keep the extinguisher clean and free from dirt, ice, chemicals, and any contaminants that 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

CAUTION: Persons expected to use this extinguisher shall be trained in initiating its operation and in the proper fire-fighting technique. "Dry Run" and visual-aid training will prepare personnel to use this extinguisher so that the most effective application can be utilized in an emergency. The basic operating instructions are contained in the pictogram portion of every extinguisher nameplate (label). The following elaborates on these instructions:

1. Move the extinguisher to within approximately 30 feet of the fire site. Keep the extinguisher upright.
   NOTE: The model 775 and 776 extinguishers may be operated in either the vertical or reclined position; however, it will discharge more agent in the vertical position.

2. Twist and pull pin. Open cylinder discharge valve by rotating (pulling) the valve lever toward the hose 90°. The hose is now pressurized with chemical.

3. Pull nozzle, with lever in the closed position, from the mount and extend the hose from the storage rack.

4. Stand back 15 to 20 feet from the fire and aim the nozzle at the base of flames nearest you. Open nozzle by pulling handle toward you (be prepared for a discharge recoil by holding the nozzle firmly).

5. 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.

6. When the fire is out, push the nozzle lever forward to the closed position.

7. Evacuate and ventilate the area immediately after extinguishing the fire. The fumes and smoke from any fire may be hazardous and can be deadly.

MODEL 775 and 776

<table>
<thead>
<tr>
<th>Discharge Time (approx.)</th>
<th>23 seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range (Agent Throw)</td>
<td>25 to 35 feet</td>
</tr>
<tr>
<td>Hose Length</td>
<td>40 feet</td>
</tr>
</tbody>
</table>
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. Rotate cylinder discharge valve lever 90° to the closed position. Install pull pin to prevent accidental actuation while transporting to recharge location.
2. Remove residual agent from hose.
3. Return the extinguisher to the upright position.
4. Coil the hose onto the storage rack and position the nozzle into the mount in preparation for transport to the recharge location.

INSPECTING THE EXTINGUISHER

This extinguisher shall 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.

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

NFPA 10 Periodic inspection of fire extinguishers shall include a check of at least the following items:

1. Located 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. Hose properly coiled and shut-off nozzle in its mount.
9. Wheels rotate freely.

MAINTENANCE

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

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 and you doubt the integrity of the cylinder, hydrostatically test to factory test pressure, using the proof pressure method, in accordance with instructions in CGA pamphlet C-6 and NFPA 10. See proper method of depressurizing and reclaiming 3M™ Novec™ 1230 in Complete Maintenance 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.

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 printed on the extinguisher label (nameplate) or on the agent cylinder dome. The agent cylinder must be hydrostatically (proof-pressure) tested every 12 years to the test pressure indicated on the nameplate (will vary according to size). Discharge hoses must also be hydrostatically tested (proof-pressure) every 12 years to 300 psi, or service pressure, whichever is higher.

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 pull pin for freedom of movement. Replace if bent or if removal appears difficult.

7. WARNING: ALWAYS OPEN THE SHUTOFF NOZZLE HANDLE SLOWLY. ANY EVIDENCE OF AGENT IN THE NOZZLE INDICATES THAT THE UNIT MAY HAVE BEEN USED AND THE USE NOT REPORTED. BE PREPARED FOR A POSSIBLE DISCHARGE AND NOZZLE Recoil. 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 Recharge Procedure.
6. 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.**

7. Inspect the wheels to insure they rotate freely. Lubricate as required.

8. 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.

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

10. If the extinguisher has been moved to perform service, make sure that it is returned to its proper location.

**COMPLETE MAINTENANCE (SIX-YEAR MAINTENANCE)**

**NFPA 10** Every 6 years, stored-pressure extinguishers shall be emptied and subjected to the applicable maintenance procedures. When the applicable maintenance procedures are performed during periodic recharging the six-year requirement shall begin from that date.

**WARNING:**

a. Before attempting to devalue the extinguisher for Maintenance, Hydrotest, or Recharging, be sure that it is completely depressurized. NEVER VENT TO THE ATMOSPHERE. Recover agent and vapor according to the instructions below.

b. Never have any part of your body over the extinguisher while removing the valve assembly.

c. **3M™Novec™1230** shall not be mixed with even the slightest amount of moisture. Prolonged exposure of a devalved cylinder to ambient air shall be avoided to prevent moisture contamination and cylinder rusting.

**COMPLETE MAINTENANCE (SIX-YEAR MAINTENANCE) PROCEDURES**

1. Complete items 1 through 9 in Maintenance Procedure above.

2. Attach the appropriate recharge adapter to the extinguisher operating valve on the extinguisher cylinder. Empty the extinguisher of all pressure and **3M™Novec™** using a listed Recharge/Recovery system and a bulk supply cylinder with sufficient empty capacity to accept the contents of the extinguisher. **NOTE:** Every effort shall be made to halt unnecessary escape of **3M™Novec™** to the atmosphere. High-Efficiency Recharge/Recovery (vacuum pump type) systems (UL Standard 2006) are commercially available. They allow a means of checking for and removing moisture or contamination during the recovery process.

3. When extinguisher is empty of all agent and pressure, remove valve assembly and disassemble by removing downtube, spring, and valve stem assembly. Discard valve stem assembly and collar O-ring.

4. Thoroughly clean all parts of the disassembled valve with a soft bristle brush or soft cloth. Blow the valve out with dry nitrogen.

5. Install a NEW Amerex valve stem assembly after lightly lubricating the valve stem O-ring with V-711 or equivalent (do not lubricate the valve stem seal). Reassemble the spring and downtube. Carefully install a NEW collar O-ring, which has been lightly lubricated with V-711 or equivalent. Set the valve assembly aside.
6. Inspect the cylinder interior following CGA Visual Inspection Standard C-6. If a hydrotest has been performed or any moisture is evident, the cylinder shall be immediately warm air dried.

7. Clean the O-ring seating groove in the cylinder neck. If any rust is evident, remove by using a fine emery cloth (200 grit). Clean the surface and lubricate the entire sealing area with a thin film of V-711 or equivalent. Install the valve assembly in extinguisher cylinder. Hand tighten firmly.

8. Use the Getz system to purge the residual air from the extinguisher cylinder.

**RECHARGE**

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

**WARNING:**

a. Use a protective shield between you and the pressure gauge while charging an extinguisher. Do not stand in front of the gauge if a shield is not available.

b. Use a regulated pressurizing source of dry nitrogen only with a minimum dew point of -70°F (-57°C). Set the regulator to no more than 25 psi above the extinguisher operating pressure.

c. Check and calibrate regulator gauge at frequent intervals. The regulator gauge shall 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. Perform steps 1 through 8 of the "Complete Maintenance (Six-Year)" section.

   **CAUTION:** All extinguisher and charging system valves must be closed before starting this procedure.

2. Thoroughly clean all parts of the disassembled valve with a soft bristle brush or soft cloth. Blow the valve out with air or nitrogen. Inspect the spring and downtube assembly, and replace parts if worn or damaged. Install a new valve stem and O-ring after lightly lubricating with V-711 (do not lubricate the valve stem seal).

3. Follow all recharging instructions on Getz or other "approved" Recharge/Recovery System.

4. Fill extinguisher with amount of 3M™Novec™ 1230 specified on nameplate and pressurize to the pressure specified with dry nitrogen.

5. Remove the recharge adapter. Some residual agent may remain in the valve orifice as a result of the charging procedure. Before attempting to leak detect, vacuum or blow the vapor away from the areas to be checked. Check extinguisher for leaks at the valve orifice, around the collar seal, cylinder welds, and gauge. One method is to apply leak detecting fluid or a solution of soapy water to these areas. Use dry nitrogen to blow all liquid residue out of the valve and wipe the extinguisher to dry the exterior. **DO NOT LEAVE ANY LIQUID INSIDE THE VALVE BODY.**

6. Install hose assembly, with shut-off nozzle attached, to the extinguisher discharge valve. Tighten hose coupling ¼ turn after contact with hose gasket. Coil hose onto the hose rack and nozzle into mount.
7. Weigh extinguisher to confirm that the total weight is within the tolerances indicated in the Maintenance section of the extinguisher label (nameplate).

8. Record recharge date, and attach new recharge tag in accordance with the requirements of the "Authority Having Jurisdiction".

**TROUBLESHOOTING GUIDE**

**WARNING**: Before attempting to correct any leakage problem, be sure that the agent cylinder and hose are completely depressurized. Check to determine the source of a leak before the extinguisher is depressurized. Leakage repairs will require depressurization and removal of the valve assembly. Use Getz or other approved recharge/recovery system to depressurize extinguisher.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Pressure gauge reads high or low</td>
<td>Temperature may have affected pressure – see temperature/pressure relationship chart.</td>
</tr>
<tr>
<td>2. Leak through valve</td>
<td>Remove valve assembly, downtube, spring, and valve stem assembly. Install new valve stem assembly. Check valve seat for scratches or foreign matter.</td>
</tr>
<tr>
<td>3. Leak at collar O-ring</td>
<td>Remove valve assembly, clean collar O-ring seating surface thoroughly, and lubricate lightly with V-711 or equivalent. Install a new collar O-ring after lubricating with V-711 or equivalent.</td>
</tr>
<tr>
<td>4. Leak around gauge threads</td>
<td>Remove gauge*, and install a new 3M™ Novec™ 1230 gauge (see parts list) using PTFE tape on the gauge threads.</td>
</tr>
<tr>
<td>5. Defective gauge</td>
<td>Remove defective gauge*, and install a new 3M™ Novec™ gauge (see parts list) using PTFE tape on the gauge threads.</td>
</tr>
<tr>
<td>6. Visible deterioration of discharge hose</td>
<td>Replace hose assembly. Extinguishing agent has been stored in hose for a prolonged time. See Caution in Shut-Down procedures.</td>
</tr>
</tbody>
</table>

* Pressure gauge threads are coated with a special epoxy at the factory. For easy removal, soak the valve assembly in hot water (180°F/82°C) for two to four minutes. Remove gauge with a 7/16" open-end wrench.

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**FOR REPLACEMENT PARTS SEE THE AMEREX PORTABLE AND WHEELED PARTS BOOK PN 27277 AVAILABLE AT http://www.amerex-fire.com UNDER MANUALS OF THE RESOURCE SELECTION.**