OWNER'S MAINTENANCE MANUAL

INSTALLATION, OPERATING & MAINTENANCE INSTRUCTIONS

NO. 27192

HALOTRON BRX® PORTABLE EXTINGUISHERS

MODELS 337, A337, 339, 347, 349, 351, A537, 547, 549, AND 551

All fire extinguishers should 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 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 ensure proper maintenance – USE OF SUBSTITUTE PARTS RELEASES AMEREX OF ITS WARRANTY OBLIGATIONS. Amerex parts have machined surfaces and threads which are manufactured to exacting tolerances. All parts meet precise specifications and are subjected to multiple in-house inspections and tests for acceptability. There are substitute parts available which are incorrectly labeled as U/L component parts, some are advertised as Amerex type. None of these meet U/L requirements. Use of substitute parts voids the Amerex extinguisher warranty and U/L listing. **DO NOT SUBSTITUTE.**

REFERENCES IN THIS MANUAL:

NFPA-10 Portable Fire Extinguishers

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

CGA C-6.3 Standard for Visual Inspection of Low Pressure Aluminum Alloy Compressed Gas Cylinders

AVAILABLE FROM:

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

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

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

REMOVE FROM SERVICE AND REPLACE FIRE EXTINGUISHERS IMMEDIATELY AFTER ANY USE.

AMEREX CORPORATION DOES NOT SERVICE OR MAINTAIN FIRE EXTINGUISHERS. THIS MANUAL IS PUBLISHED AS A GUIDE TO ASSIST QUALIFIED SERVICE PERSONNEL IN THE INSPECTION AND MAINTENANCE OF AMEREX FIRE EXTINGUISHERS ONLY. NO INSTRUCTION MANUAL CAN ANTICIPATE ALL POSSIBLE MALFUNCTIONS THAT MAY BE ENCOUNTERED IN THE SERVICE OF FIRE EXTINGUISHERS. DUE TO THE POSSIBILITY THAT PRIOR SERVICE PERFORMED ON THIS EQUIPMENT MAY HAVE BEEN IMPROPERLY DONE, IT IS EXTREMELY IMPORTANT THAT ALL WARNINGS, CAUTIONS AND NOTES IN THIS MANUAL BE CAREFULLY OBSERVED. FAILURE TO HEED THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY. AMEREX ASSUMES NO LIABILITY FOR SERVICE OR MAINTENANCE OF FIRE EXTINGUISHERS BY PUBLISHING THIS MANUAL

INTRODUCTION

This manual covers installation, operation, inspection, and maintenance of Amerex Halotron BrX® hand portable extinguishers. Halotron BrX® extinguishers are designed for Class A, B and C hazards and contain stabilized bromotrifluoropropene (BTP). Halotron BrX® is listed in the U.S. Environmental Protection Agency (EPA) Significant New Alternative Policy (SNAP) as acceptable for aerospace applications. Halotron BrX® has acceptable toxicity and cardiac sensitization levels for use in occupied spaces when used according to the instructions on the nameplate and applicable EPA SNAP and SNUR requirements.

PHYSICAL PROPERTIES OF HALOTRON BrX®

Primary Component	Bromotrifluoropropene (BTP)
Boiling Point	93°F [34°C]
Liquid Density	103 lb./ft³ (1.65 kg / liter)
Gas Density	0.45 lb./ft³ (7.21 kg / m³)
Molecular Weight	174.9
Physical State	Volatile Liquid
Vapor Pressure @ 77ºF [25ºC]	11.9 psi [82 kPa]

INSTALLATION

THIS MANUAL SHOULD BE CAREFULLY STUDIED BY ALL WHO MIGHT USE OR MAINTAIN THE EXTINGUISHER. STORE IT IN A CONVENIENT PLACE FOR EASY REFERENCE.
Your layout and particular hazards dictate the placement of fire extinguishers. Install in accordance with NFPA 10. Install in an accessible, clean, dry location, preferably near an exit. **Do not install where a potential hazard would prevent easy access.**

The operational temperature range is -40°F to +120°F (-40°C to +60°C). Protect the extinguisher if temperatures outside this range are anticipated. Never throw an extinguisher into a fire because rapid heat buildup could cause pressure expansion and exceed the limitations of the cylinder.

OPERATION

WARNING: USERS SHOULD BE MADE AWARE OF THE CONFINED SPACE LIMITATIONS AND TRAINED IN OPERATION AND PROPER FIREFIGHTING TECHNIQUE. THE AGENT CAN PRODUCE TOXIC BY-PRODUCTS. EVACUATE AND VENTILATE THE AREA AFTER USE. DO NOT USE IN CONFINED SPACES SMALLER THAN THE MINIMUM STATED ON THE EXTINGUISHER LABEL.

1. Remove extinguisher from wall hanger or vehicle bracket.
2. Hold extinguisher upright, twist and pull ring pin.
3. Start back a minimum of 8 feet from the fire. Aim the nozzle at the base of the fire nearest you.
4. Keeping the extinguisher upright, squeeze the lever to discharge. Sweep the agent stream from side to side.
5. Evacuate and ventilate the area immediately after extinguishing the fire. The fumes and smoke from any fire may be hazardous and can be deadly.

WARNING: OVER-EXPOSURE TO Halotron BrX® MAY CAUSE DIZZINESS, DROWSINESS, OR UNCONSCIOUSNESS. MOVE AFFECTED PERSONS TO FRESH AIR IMMEDIATELY. APPLY ARTIFICAL RESPIRATION IF NECESSARY. CONTACT A PHYSICIAN.

INSPECTING THE EXTINGUISHER

Inspection is a quick check that the fire extinguisher is in operating condition and accessible. Inspect extinguishers when initially placed in service and at regular intervals (monthly or more often if circumstances dictate). Inspection and maintenance shall be performed in accordance with NFPA 10.

PERIODIC INSPECTION PROCEDURES

Check the extinguisher for the following:

1. Located in designated place.
2. No obstruction to access or visibility.
3. Operating instructions on nameplate legible and facing outward.
4. Tamper seal not broken or missing.
5. Determine fullness by weighing or "hefting".
6. Examination for obvious physical damage, corrosion, leakage, or clogged nozzle.
7. Pressure gauge reading in the operable range.

NFPA 10 states that a broken or missing tamper seal on a non-rechargeable extinguisher shall result in immediate removal from service. See NFPA 10 for applicable requirements governing non-rechargeable extinguishers.

MAINTENANCE

Maintenance is a thorough examination intended to provide assurance that the fire extinguisher is fully operational. Perform maintenance at intervals of not more than one year, or when indicated by an inspection, in accordance with NFPA 10. Examine the following:

1. Mechanical parts
2. Expelling means - inspect nozzle for clear passage.

NOTE: Stored pressure Halotron BrX® extinguishers do not require internal cylinder or agent examination during annual maintenance, but shall receive a thorough external examination.

MAINTENANCE PROCEDURE

1. Tamper seals on Amerex HT Series and Halotron BRX non-rechargeable extinguishers shall not be removed. See NFPA 10 for applicable requirements governing non-rechargeable extinguishers.
2. Clean extinguisher to remove dirt, grease or foreign material. Check to make sure that the instruction nameplate and UL manifest are securely fastened and legible. Inspect the cylinder for corrosion, abrasion, and dents. If any of these conditions are found and you doubt the integrity of the cylinder, replace the extinguisher.

   NOTE: *Avoid solvents around the pressure gauge; they may damage the gauge face.*
3. Inspect the extinguisher for damaged, missing or substitute parts. Only factory parts are approved for use on Amerex fire extinguishers.
4. Weigh extinguisher and compare with weight printed in the Maintenance section on the nameplate.
5. Check the date of manufacture on the extinguisher nameplate. Extinguisher must be replaced at 12 year intervals as determined by the date of manufacture on the UL nameplate.

6. Visually inspect the pressure gauge:
    a) If bent, damaged or improper gauge, replace extinguisher.
    b) If pressure is low or high and temperature/pressure relationship has been ruled out:
        1. Low pressure – check for leaks. Contact Amerex if under warranty; otherwise remove from service and replace extinguisher.
        2. High pressure (over pressurized or over charged) — Contact Amerex if under warranty; otherwise remove from service and replace extinguisher.
7. Remove nozzle or hose and nozzle assembly and inspect for damage. Blow air through nozzle or hose and nozzle to ensure that passage is clear from foreign material. Replace component parts with proper Amerex parts as necessary.
8. Inspect discharge lever for dirt or corrosion that might impair freedom of movement. Inspect carrying handle for proper installation.
9. Inspect valve assembly for corrosion or damage to hose thread connection.
10. Install nozzle or hose and nozzle assembly.
11. Reinstall the extinguisher in the wall or vehicle bracket making sure that it fits the bracket properly – replace the bracket if necessary.

WARNING

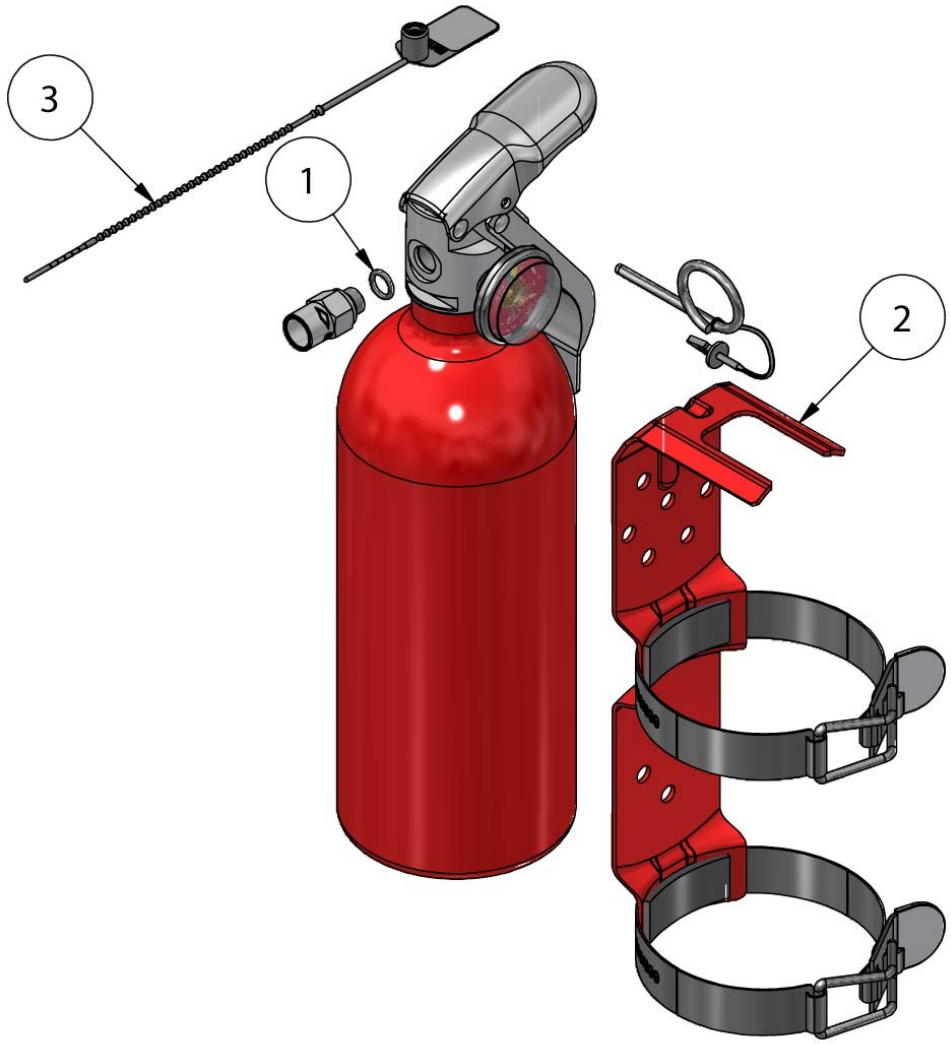
1. Halotron BrX® agent is comprised of 2-bromo-3,3,3-trifluoropropene (also known as BTP, 2-BTP, or HBFO-1233xfB) with proprietary stabilizers. The stabilized agent has a 12-year useful life beginning upon the manufacture date of the extinguisher.

TROUBLE SHOOTING GUIDE

	PROBLEM	CORRECTIVE ACTION
1.	Leak at collar O-ring	Contact Amerex if under warranty; otherwise remove and replace extinguisher.
2.	Leak through valve	Contact Amerex if under warranty; otherwise remove and replace extinguisher.
3.	Defective gauge	Contact Amerex if under warranty; otherwise remove and replace extinguisher.
4.	Leak in cylinder	Contact Amerex if under warranty; otherwise remove and replace extinguisher.

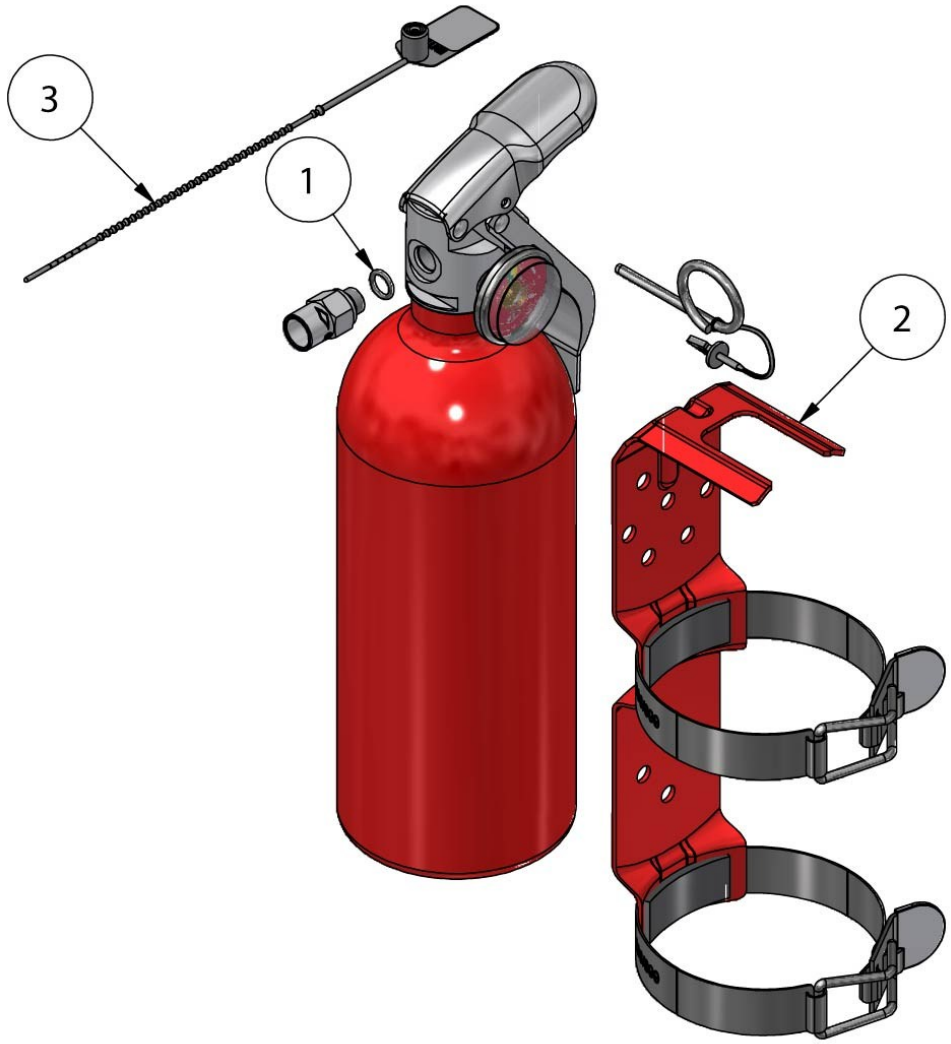
PARTS LIST
for
1.79 lb. Halotron BrX® Extinguisher Model A337

ITEM #	PART #	DESCRIPTION
1	01532-P	ORING NOZ HOSE END SALES
2	27293-P	BKT ASY 899 BTP RD SALES
3	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY



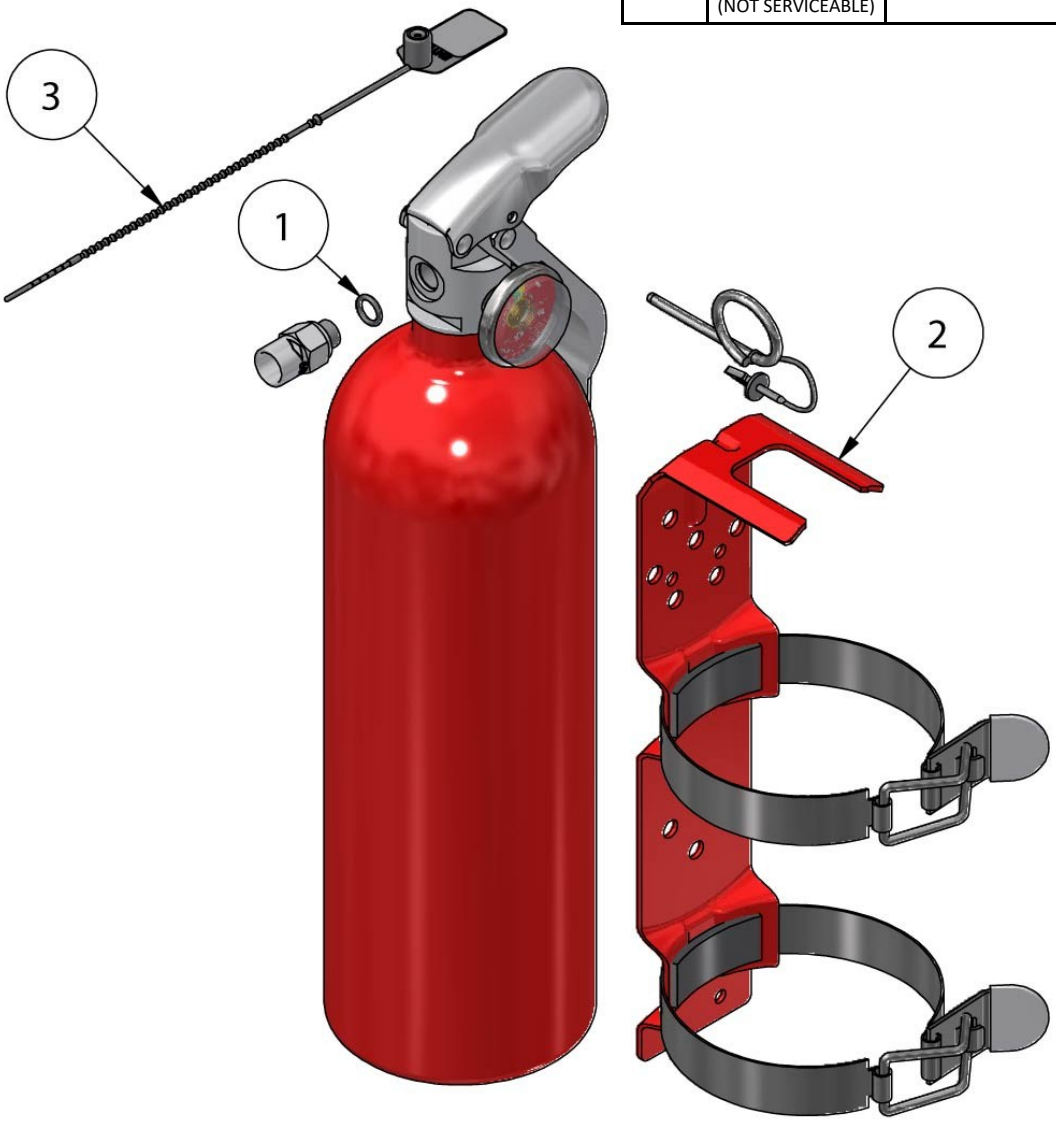
PARTS LIST
for
1.92 lb. Halotron BrX®
Extinguisher Model 337

ITEM #	PART #	DESCRIPTION
1	01532-P	ORING NOZ HOSE END SALES
2	27293-P	BKT ASY 899 BTP RD SALES
3	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY



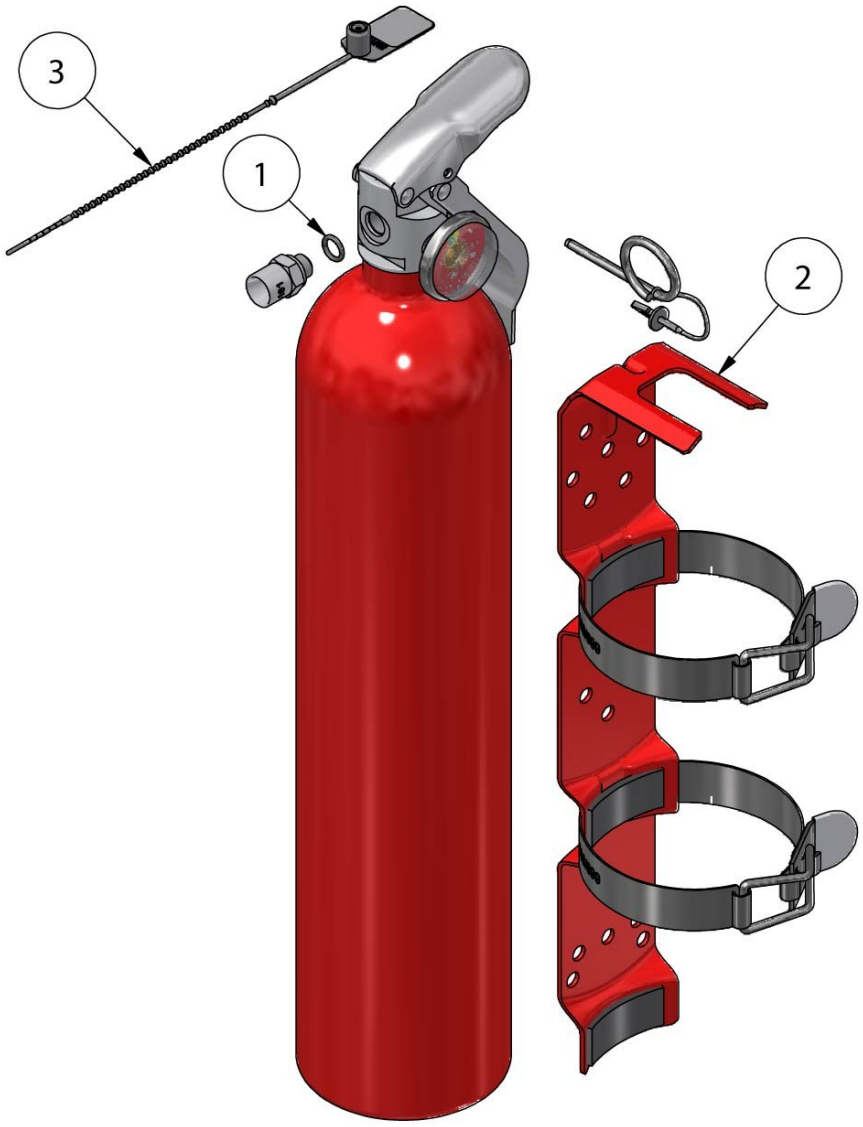
PARTS LIST
for
3.55 lb. Halotron BrX® Extinguisher Model 339

ITEM #	PART #	DESCRIPTION
1	01532-P	ORING NOZ HOSE END SALES
2	27804-P	BKT ASY 893 BRX RD SALES
3	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY



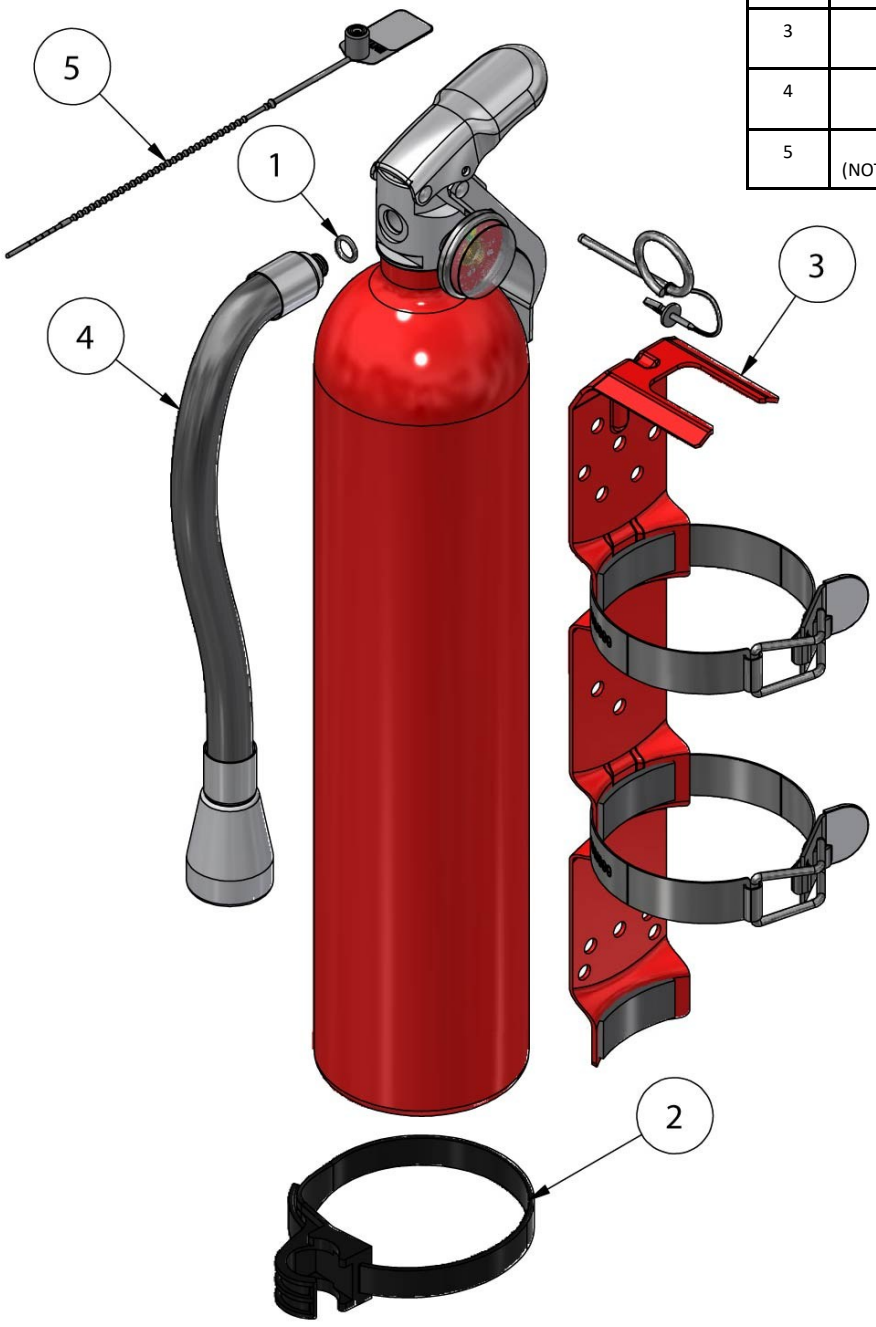
PARTS LIST
for
3.75 lb. Halotron BrX® Extinguisher Model 347

ITEM #	PART #	DESCRIPTION
1	01532-P	ORING NOZ HOSE END SALES
2	25261-P	BKT ASY 898 BRX RD SALES
3	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY

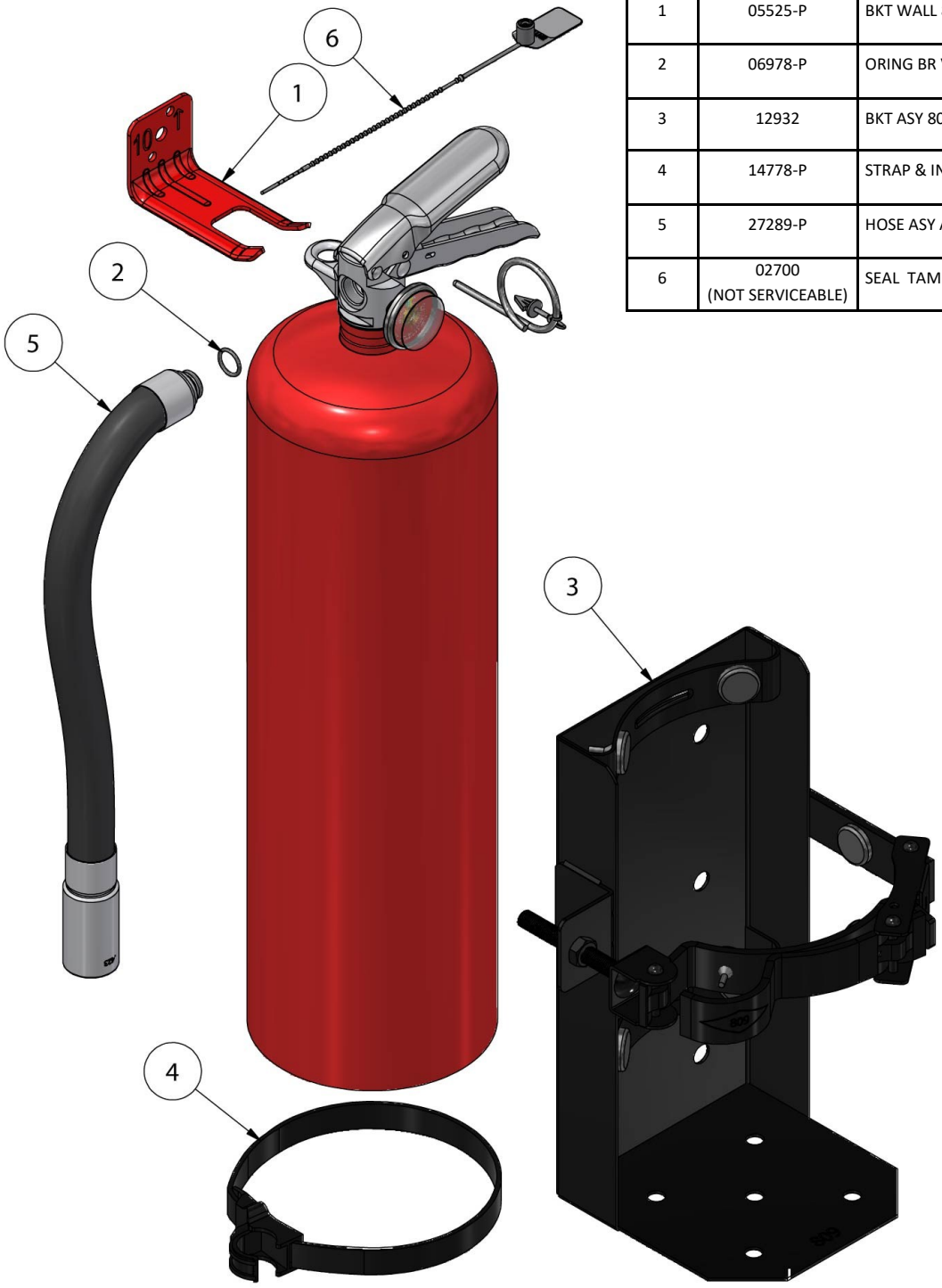


PARTS LIST
for
3.75 lb. Halotron BrX®
Extinguisher Model 349

ITEM #	PART #	DESCRIPTION
1	01532-P	ORING NOZ HOSE END SALES
2	17207-P	STRAP ASY BK 3/8”X5” SALES
3	25261-P	BKT ASY 898 BRX RD SALES
4	27189-P	HOSE ASY 3/8 AL .189 BRX SALES
5	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY



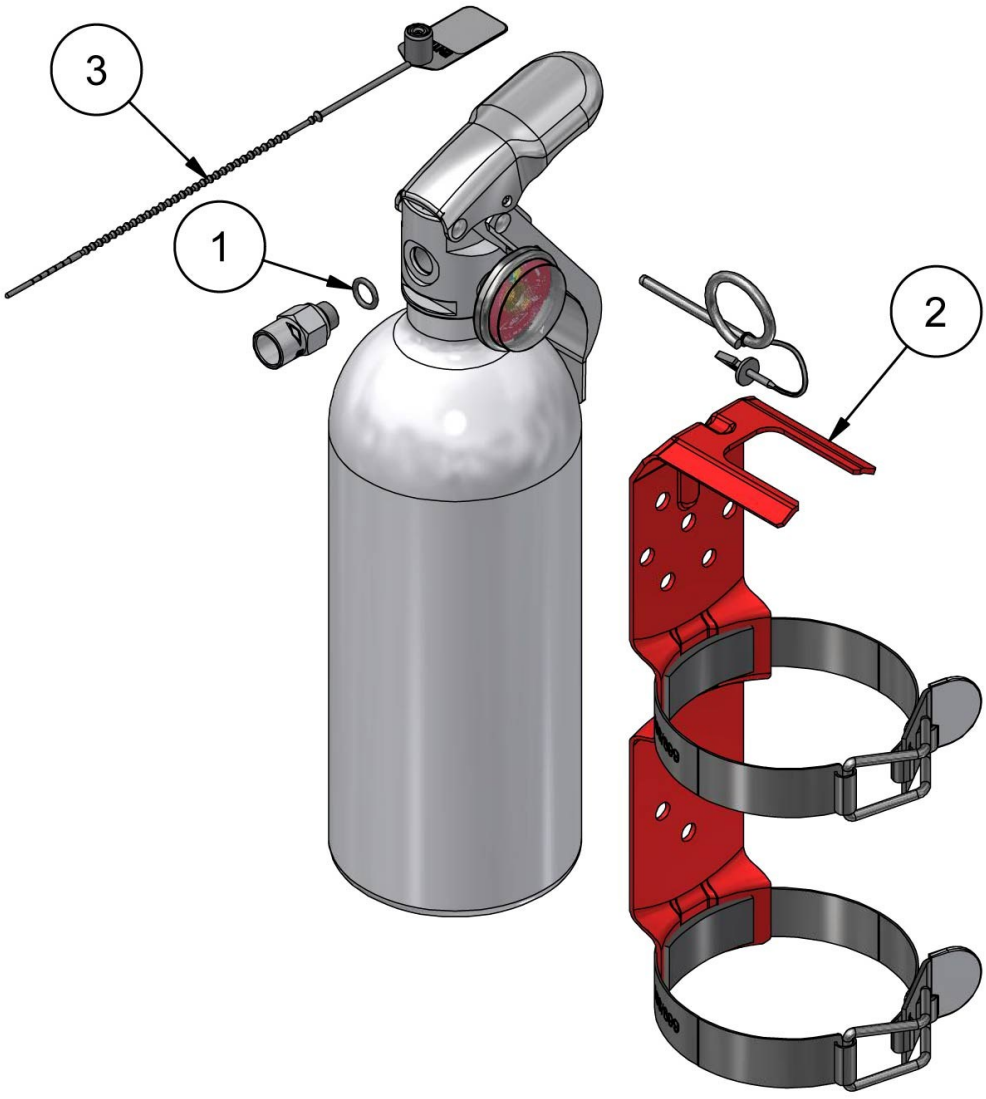
PARTS LIST
for
12.5 lb. Halotron BrX®
Extinguisher Model 351



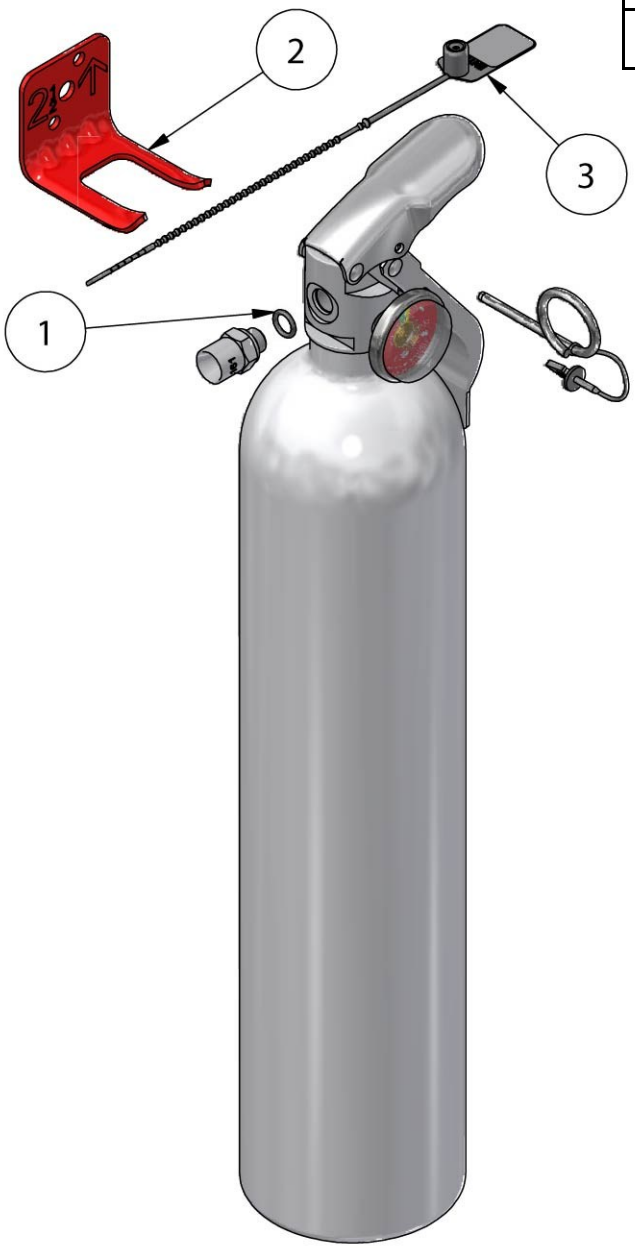
ITEM #	PART #	DESCRIPTION
1	05525-P	BKT WALL 820 RD AL 10 SALES
2	06978-P	ORING BR VLV HOSE SALES
3	12932	BKT ASY 809 BK 5” VEH
4	14778-P	STRAP & INSERT ASY BK 1/2 SALES
5	27289-P	HOSE ASY AL 1/2” .423 BRX SALES
6	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY

PARTS LIST
for
1.79 lb. Halotron BrX®
Extinguisher Model A537

ITEM #	PART #	DESCRIPTION
1	01532-P	ORING NOZ HOSE END SALES
2	27293-P	BKT ASY 899 BTP RD
3	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY

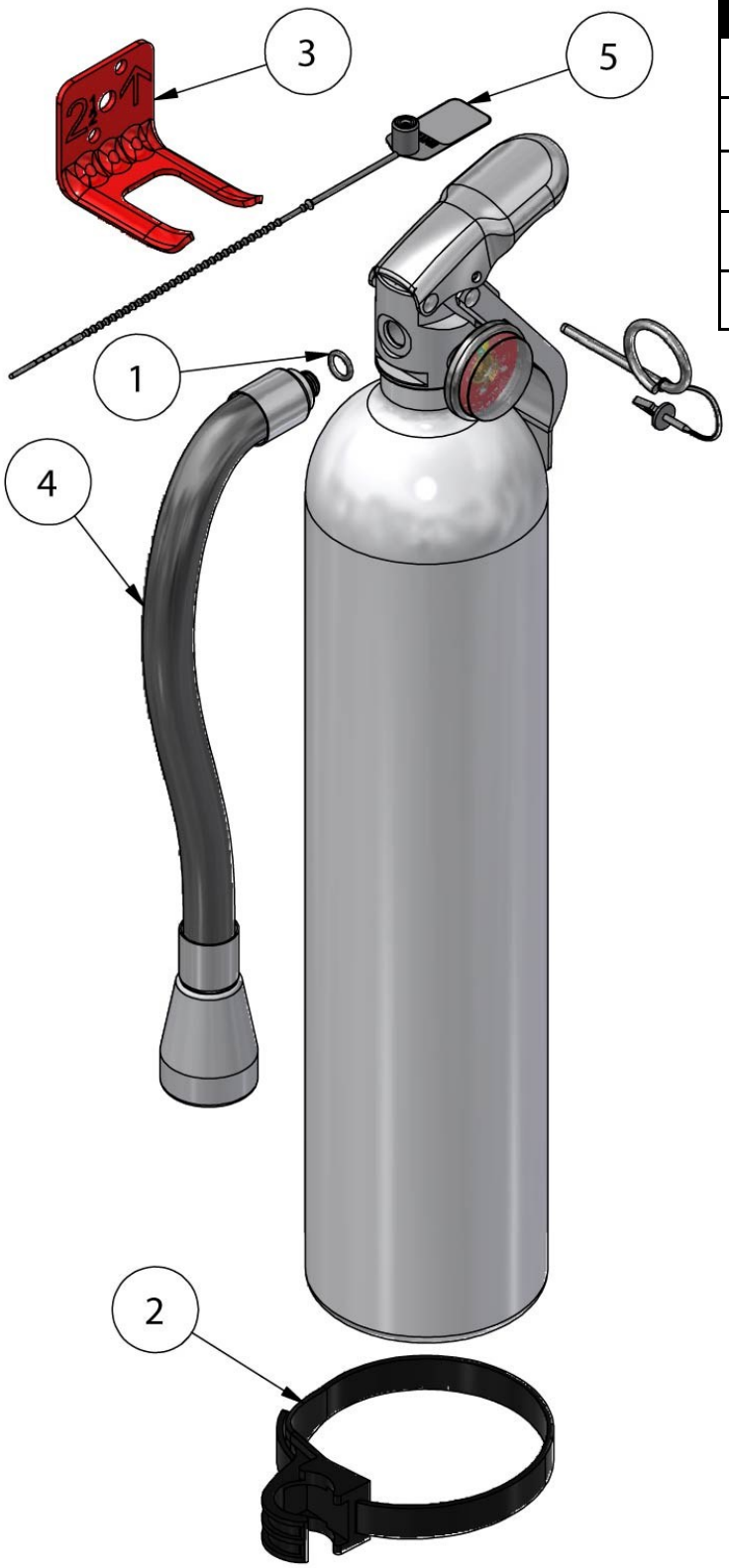


PARTS LIST
for
3.75 lb. Halotron BrX® Extinguisher Model 547



ITEM #	PART #	DESCRIPTION
1	01532-P	ORING NOZ HOSE END SALES
2	04834-P	BKT WALL 853 RD
3	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY

PARTS LIST
for
3.75 lb. Halotron BrX® Extinguisher Model 549



ITEM #	PART #	DESCRIPTION
1	01532-P	ORING NOZ HOSE END SALES
2	17207-P	STRAP ASY BK 3/8”X4-1/4” SALES
3	04834-P	BKT WALL 853 RD
4	27189-P	HOSE ASY 3/8 AL .189 BRX SALES
5	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY

PARTS LIST
for
12.5 lb. Halotron BrX® Extinguisher Model 551

ITEM #	PART #	DESCRIPTION
1	05525-P	BKT WALL 820 RD AL 10 SALES
2	06978-P	ORING BR VLV HOSE SALES
3	12932	BKT ASY 809 BK 5" VEH
4	14778-P	STRAP & INSERT ASY BK 1/2 SALES
5	27289-P	HOSE ASY AL 1/2" .423 BRX SALES
6	02700 (NOT SERVICEABLE)	SEAL TAMPER PROD GRAY

