STORED PRESSURE, HAND PORTABLE
WET CHEMICAL(RESTAURANT KITCHEN) FIRE EXTINGUISHERS
MODELS: WC6L , WC2.5GAL

Owner's SERVICE MANUAL
NO.ZX-UL-SM002
INSTALLATION, OPERATING & SERVICING INSTRUCTIONS

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 install, inspection, maintenance is required, 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.

Victory strongly recommends that the maintenance of portable fire extinguishers be done by a trained professional – your local authorized Victory Distributor.

Victory Corporation makes original factory parts available to insure proper maintenance – USE OF SUBSTITUTE PARTS RELEASES VICTORY OF ITS WARRANTY OBLIGATIONS. Victory 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. DO NOT SUBSTITUTE.

Marine approval is valid only when the extinguisher is equipped with an approved marine type bracket.

RECHARGE FIRE EXTINGUISHERS IMMEDIATELY AFTER ANY USE

REFERENCES IN THIS MANUAL:	AVAILABLE FROM:
NFPA-10 Portable Fire Extinguishers	National Fire Protection Association 1 Batterymarch Park, P.O, Box 9101 Quincy, MA 02269-9101
CGA C-1 Methods for Hydrostatic Testing of Compressed Gas Cylinders CGA C-6 Standard for Visual Inspection of Compressed Gas Cylinders	Compressed Gas Association, Inc. 4221 Walney Road, 5th Floor Chantilly, VA 20151-2923

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INSTALLATION

Your layout and particular hazards dictate the placement of fire extinguishers. NFPA-10 requires that hand portable extinguishers with a gross weight less than 40 lbs. be hung with the top of the extinguisher **not more** than 5 ft. (1.53 m) above the floor. Extinguishers having a gross weight greater than 40 lbs. (18.14 kg) should be installed so that the top of the extinguisher is **not more** than 3 . ft. (1.07m) above the floor. All extinguishers should be in an accessible location and near an exit. **Never install the extinguisher in a location where a potential hazard would prevent easy access.** The operational temperature range for this extinguisher is 40°F to +120°F (4°C to +49°C) [please see the nameplate on your extinguisher]. 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 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 over a period of time and make the extinguisher ineffective.) Never throw an extinguisher into a fire because rapid heat buildup could cause pressure expansion and exceed the limitations of the cylinder.

OPERATION

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

1. Remove the extinguisher from wall hanger or bracket.
2. Hold the extinguisher upright, twist and pull the ring (safety) pin, snapping the plastic lock wire seal.
3. Starting back a minimum of 8 feet from the fire, grasp the nozzle and aim at the base of the fire nearest you.
4. Keeping the extinguisher upright, squeeze the lever to discharge and sweep the chemical agent stream from side to side. 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 material.
5. When the fire is out, stand by and watch for possible re-ignition.
6. Evacuate and ventilate the area immediately after extinguishing the fire. The fumes and smoke from any fire may be hazardous and can be deadly.

CAUTION: DISCHARGE TIME AND EFFECTIVE RANGE OF THE AGENT THROW VARIES ACCORDING TO MODEL – SEE THE SPECIFICATION LITERATURE FOR YOUR EXTINGUISHER.

RECHARGE FIRE EXTINGUISHERS IMMEDIATELY AFTER ANY USE

VICTORY CORPORATION DOES NOT SERVICE, MAINTAIN OR RECHARGE FIRE EXTINGUISHERS. THIS MANUAL IS PUBLISHED AS A GUIDE TO ASSIST QUALIFIED SERVICE

PERSONNEL IN THE INSPECTION, MAINTENANCE AND RECHARGE OF VICTORY 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.

VICTORY ASSUMES NO LIABILITY FOR SERVICE, MAINTENANCE OR RECHARGE OF FIRE EXTINGUISHERS BY PUBLISHING THIS MANUAL.

INSPECTING THE EXTINGUISHER

The inspection procedures outlined below may not be sufficient for every jurisdiction or location and should be used in conjunction with the NFPA 10 Standard for Portable Fire Extinguishers, 2007 Edition.

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.

WARNING: FOR SAFETY PURPOSES, IF AN EXTINGUISHER SHOWS SIGNS OF CORROSION OR MECHANICAL DAMAGE, IT SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST OR REPLACED.

PERIODIC INSPECTION PROCEDURES

(Monthly or more often if circumstances dictate)

The inspection procedures outlined below may not be sufficient for every jurisdiction or location and should be used in conjunction with the latest NFPA 10 Standard for Portable Fire Extinguishers. Fire extinguishers shall be manually inspected when initially placed in service. The inspection 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, has not been actuated or tampered with, and there is no obvious physical damage or condition to prevent operation.

[NFPA-10] 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. Fullness determined by weighing or hefting extinguishers,
5. Operating instructions on nameplate are legible and facing outward.

6. Safety seals and tamper indicators not broken or missing.
7. Examination for obvious physical damage, corrosion, leakage, or clogged nozzle.

MAINTENANCE (ref. 7.2 & 7.3 - NFPA 10, 2007)

[NFPA-10] At least once a year or more frequently if circumstances require, maintenance should be performed. 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, servicing & recharging shall be performed by trained and certified persons having available the appropriate servicing manual, the proper types of tools, recharge materials, lubricants, and Victory replacement parts.

Fire extinguishers shall be subjected to maintenance at intervals of not more than 1 year, at the time of hydrostatic test, or when specifically indicated by an inspection. Extinguishers taken out of service for maintenance or recharge shall be replaced by spare extinguishers of the same type and at least an equal rating.

MAINTENANCE – SERVICE PROCEDURE

WARNING: BEFORE SERVICING BE SURE THE EXTINGUISHER AGENT CYLINDER IS NOT PRESSURIZED. THIS PROCEDURE IS 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 attached and legible. Inspect the cylinders for corrosion, abrasion, dents or weld damage. If any damage is found, hydrostatically test in accordance with instructions in CGA C-1 and C-6 and NFPA 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 Victory 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. Any extinguisher not falling within the tolerance limits shall be properly recharged.

4. Check the date of manufacture printed on the extinguisher label (nameplate) or on the agent cylinder dome. The agent cylinder must be hydrostatically tested every 12 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), depressurize the extinguisher and follow recharge instructions.

6. Check ring pin for freedom of movement. Replace if bent or if removal appears difficult.

7. Inspect discharge lever for any dirt or corrosion which might impair freedom of movement. Inspect carrying handle for proper installation. If lever, handle or rivets are damaged replace with proper Victory part(s).

8. Remove nozzle or hose and horn assembly and visually inspect inside valve body . Inspect nozzle or the hose & horn assembly for damage – replace as necessary. Blow air through nozzle or hose and horn to insure passage is clear of foreign material.

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.

10. Install nozzle or hose and horn assembly.

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

12. Replace the extinguisher on the wall hanger or in the vehicle bracket making sure that it fits the bracket properly and the bracket is securely attached – replace the bracket if necessary.

COMPLETE MAINTENANCE – SIX YEAR TEARDOWN

[NFPA-10] 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 Victory Distributor to see if these requirements apply to you.

1. Discharge all remaining pressure and wet chemical, making sure there is no remaining pressure. Do not reuse or top off wet chemical. Make sure that the extinguisher is completely empty and depressurized.

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), using the proof pressure method, in accordance with CGA C-1 and NFPA 10.

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 REPLAEMENT PARTS ARE APPROVED FOR USE ON VICTORY FIRE EXTINGUISHERS.

4. Check the date of manufacture on the extinguisher label (nameplate). Cylinder must be hydrostatically (proof pressure) tested every 12 years to the test pressure indicated on the nameplate.

5. Visually inspect the pressure gauge – if bent, damaged or improper type or pressure – replace with the proper Victory pressure gauge (see Parts List).

6. Check ring pin for freedom of movement. Replace if bent or if removal appears difficult.

7. Inspect discharge lever for any dirt or corrosion which might impair freedom of movement. Inspect carrying handle for proper installation. If lever, handle or rivets are damaged, replace with proper Victory parts.

8. Remove nozzle or hose and horn assembly and visually inspect threads on nozzle or hose coupling, horn and hose for damage, and replace as necessary. Blow air through nozzle or hose and horn to insure passage is clear of foreign material.

9. Inspect the valve assembly for corrosion or damage to nozzle or hose thread connection. Replace valve assembly or component parts as necessary.

WARNING: Before attempting to disassemble the extinguisher be sure it is completely depressurized.

10. Remove and disassemble valve assembly by removing dip tube, spring and valve stem assembly. Install a new valve stem and collar o-ring after lightly lubricating with Visilox V- 711. (Do not lubricate valve stem seal.)

11. Complete steps 3 through 14 of Recharge Procedure.

RECHARGE

WARNING:

a. Before attempting to disassemble, be sure the extinguisher is completely depressurized.
b. Never have any part of your body over the extinguisher while removing the valve assembly.
c. 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.
d. Use a regulated pressurizing source of dry nitrogen only with a minimum dew point of minus 70oF (minus 57C). Set the regulator to no more than 25 psi above the operating pressure.
e. 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.
f. 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.
g. Do not reuse or top off wet chemical.

RECHARGING PROCEDURE

1. Perform steps 1 through 10 of the "Complete Maintenance (Six Year Teardown)" section.

2. Thoroughly rinse all the parts with clean water and pat dry with a clean soft cloth. Blow air or nitrogen through the valve assembly. Inspect the collar o-ring, valve stem, spring and dip tube assembly, and replace parts if worn or damaged. Lubricate the collar o-ring and small o-ring on the valve stem. (do not lubricate the valve stem seal).

3. Reassemble the valve assembly, including dip tube and set aside.

4. Remove any wet chemical remaining in the cylinder and check the condition. Rinse the cylinder with clean water. Properly dispose of any wet chemical in accordance with local regulations.

5. Inspect the cylinder interior following CGA Visual Inspection Standard C-6.

6. Using an accurate scale, fill cylinder with the correct amount and type of wet chemical specified on the label (nameplate).

CAUTION: Filling by eye alone could cause potentially dangerous overfilling – always use a scale.

7. Clean cylinder collar o-ring seat and collar threads with a small brush and then wipe off surfaces with a clean cloth to remove dust. Lightly brush the collar o-ring seat with Visilox V-711.

8. Carefully center the dip tube and install valve assembly hand tight (Max force 30NM) to the cylinder (the bottom of the valve body should touch the top of the cylinder collar). Attach the nitrogen charging adapter to the valve assembly.

9. With the extinguisher properly secured in an upright position, connect your nitrogen pressurizing line with a quick connect to the nitrogen charging adapter. Depress the extinguisher operating lever and pressurize extinguisher with dry nitrogen to the proper operating pressure. When the desired pressure has been reached, release the lever. Shut off nitrogen supply and remove the quick connect.

10. Check extinguisher for leaks by applying detecting fluid or a solution of soapy water to the nitrogen charging adapter orifice, around the collar o-ring sealing area, cylinder welds and gauge. Remove the nitrogen charging adapter. Blow air or nitrogen into the interior of the valve assembly to remove any remaining leak detecting fluid. Wipe exterior of extinguisher to remove any remaining residue.

11. Install nozzle or hose and horn assembly.

12. Install ring pin with ring facing the front of the extinguisher.

13. Install tamper seal. Record recharge date and attach new recharge tag.

14. Weigh assembled extinguisher and confirm that the total weight is within the allowable tolerances indicated in the Maintenance section of the 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 a leakage problem. To depressurize – hold the extinguisher in an inverted position and slowly squeeze the discharge handle. Some chemical remaining in the dip tube will be expelled so care should be taken in the area being used for depressurizing. Thoroughly clean all valve parts after depressurization and valve removal.

	PROBLEM	CORRECTIVE ACTION
1	Leak at collar o-ring	Remove valve assembly, remove and discard o-ring, clean collar and lube lightly with Visilox V-711. Clean o-ring groove on valve and install new collar o-ring. Lubricate with Visilox V-711.
2	Leak through valve	Check valve stem seating area for scratches or foreign matter. Clean seating area with a tooth brush and soft cloth. Install new valve stem assembly.
3	Leak around gauge	Remove gauge*, clean threads and reinstall using Teflon tape on the gauge threads.
4	Defective gauge	Remove defective gauge* an install the proper Victory pressure gauge using Teflon tape on the gauge threads.
5	Defective cylinder	Contact Victory if under warranty, otherwise mark "REJECTED" and remove from service or return to owner.

LIMITED WARRANTY

Victory warrants its fire extinguishers (“Products”) to be free from defects in material and workmanship for a period of six (6) years from the date of manufacture. Victory’s responsibility for defects in material or workmanship are limited to repair or replacement of the products for the original retail purchaser (“Consumer”) only. This limited warranty does not cover defects resulting from modification, abuse, accident, alteration, misuse, exposure to corrosive conditions, or improper installation or maintenance. Victory is not responsible for the installation or the maintenance of the Products.

Defective Products for which a valid claim has been made shall be returned to Victory’s facility for repair or replacement (or to other repair facilities pursuant to Victory’s prior written authorization), and transportation costs to such locations shall be paid by Consumer.

VICTORY DOES NOT ACCEPT LIABILITY BEYOND THE REMEDIES PROVIDED IN THIS LIMITED WARRANTY, WHETHER BASED ON CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, INCLUDING WITHOUT LIMITATION DAMAGES FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR ANY DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES, AND INCLUDING WITHOUT LIMITATION ANY LIABILITY FOR THIRD PARTY CLAIMS, IN EACH CASE EVEN IF STRIKE FIRST HAS BEEN ADVISED OF THE POSSIBILITY THEREOF. LAWS OF SOME JURISDICTIONS DO NOT ALLOW THE DISCLAIMER OF CONSEQUENTIAL OR OTHER TYPES OF DAMAGES, AND CONSUMERS MAY ALSO

HAVE OTHER RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION. UNDER SUCH CIRCUMSTANCES, THIS LIMITED WARRANTY AND THE LIMITATIONS AND DISCLAIMERS HEREIN SHALL BE TO THE GREATEST EXTENT PERMITTED BY LAW.

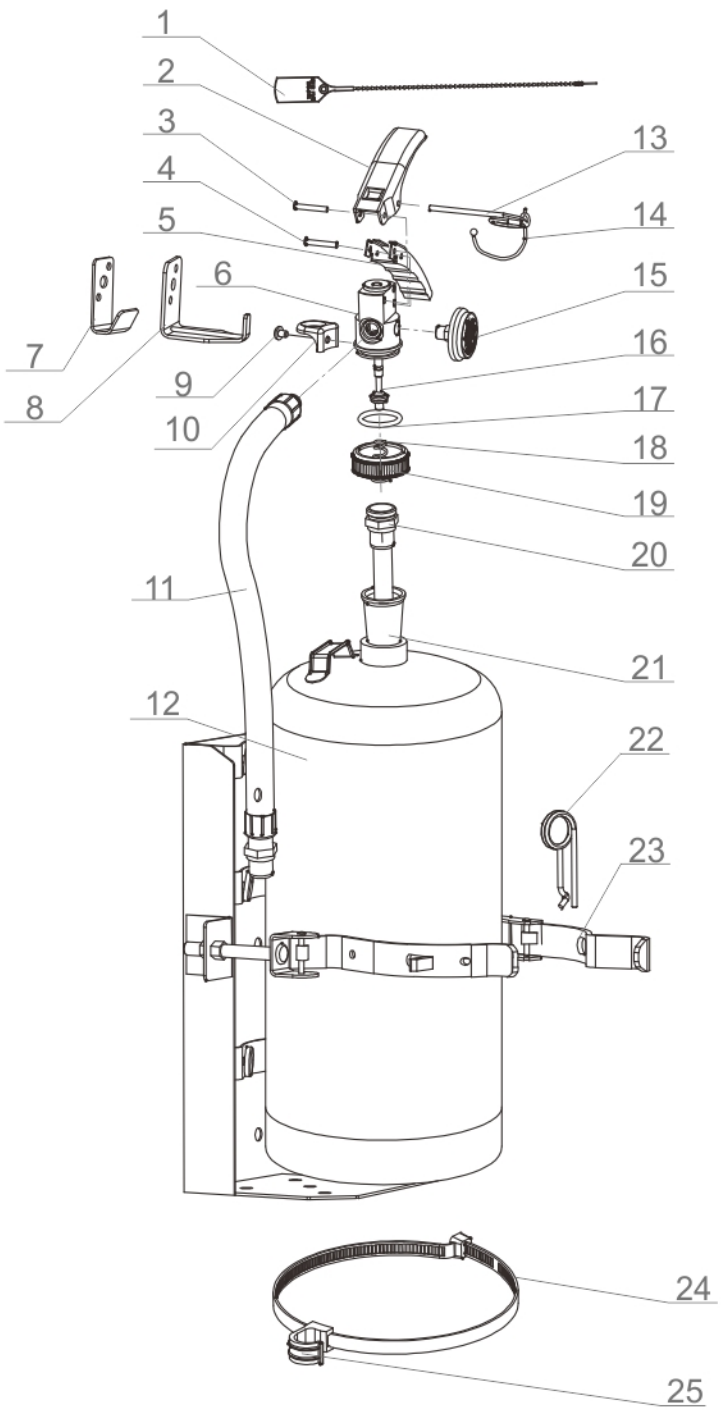
THIS LIMITED WARRANTY CONTAINS THE ENTIRE WARRANTY PROVIDED BY VICTORY, AND SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES OR CONDITIONS, WHETHER EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Neither the Product distributor nor any other third party is authorized to make any conditions, representations or warranties on Victory's behalf. VICTORY neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than as expressly set forth herein.

Any disputes regarding or relating to this limited warranty will be resolved in the sole discretion of VICTORY.

REFERENCES IN THIS MANUAL:		AVAILABLE FROM:
NFPA 10	Standard for Portable Fire Extinguishers 2007 Edition	National Fire Protection Association 1 Batterymarch Pk. Quincy, MA 02169-7471 www.nfpa.org
*CGA C-1	"METHODS FOR HYDROSTATIC TESTING OF COMPRESSED GAS CYLINDERS"	Compresed Gas Assoc., Inc. 4221 Walney Rd., 5th Floor Chantilly, VA 20151 www.cganet.com

VICTORY-FIRE EXTINGUISHER PARTS



WET CHEMCIAL
WC6L

No.	Product Code	Descriptions	Drawing Number
1	0714025	Seal	ZX-014-013
2	0202118	Lever	ZX-BS-51-01
3	0204029	Rivet ϕ4X25.5	ZX-MD-100
4	0204057	Rivet ϕ4X24.5	ZX-MD-102
5	0203089	Carry Handle	ZX-BS-51-02
6	020504045	Valve body	ZX-1U-10-02
7	070200010	Bracket	ZX-017-039
8	070200007	Bracket	ZX-017-016
9	0715038	Screw	ZX-GB-LS-08
10	0715037	hanging loop	ZX-1U-01-04
11	080100093	Hose assembly	ZX-012-110
12	050100244	Cylinder	ZX-001-179.5S-008
13	020901003	Spring pin	ZX-BXX-33
14	0210001	Chain	ZX-XJL-01
15	040332	Pressure gauge	ZX-008-139
16	0220021	Valve stem assembly	ZX-1U-01-03
17	020603009	O Ring	ZX-OXQ-202
18	020701040	Spring ϕ26.57X ϕ3.53	ZX-TH-114
19	0234004	Ring nut	ZX-LQ-21-02
20	080408005	Dip tube assembly	ZX-009-237-00
21	2012029	Antioverfill Tube	ZX-084-001
22	020901033	Safety pin	ZX-BXX-43
23	07010016	Bracket	ZX-016-092-00
24	071115	Strap	ZX-013-002
25	071007	Hose Catch	ZX-018-007