



Introduction

Purpose

This manual provides instructions for the installation of an External Filter option. Depending on the type of filters installed, this option will provide protection against particulates and water. The adapter in this kit incorporates a special groove design that is required when used with a blue cold weather gasket.

This kit contains parts for the following models.

Kit Number	Filter Type	Pump Model
032753	Hydro (particulate and water)	
032752	Standard (particulate only)	216A, 9510 and 9850A

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Required Tools

The following tools are required for the installation of the kit:

- Two pipe wrenches
- UL®-classified gas and oil resistant pipe compound

Required Reading

The installer must read and understand all instructions, safety warnings and precautions before beginning. The installer must also be familiar with:

- This manual
- NFPA 30A, The Automotive and Marine Service Station Code
- NFPA 70, The National Electric Code
- Applicable Federal, State and Local codes and regulations

Failure to do so may adversely affect the safe use and operation of the equipment.

Note: This kit must be installed by a Gasboy Authorized Service Contractor (ASC) to ensure warranty.

Parts List

The following table lists the parts included in this kit. Refer to [Figure 1 on page 5](#) for the illustration showing the parts included in the kit.

Item	Description	Part Number	Quantity
1	Elbow, 1-1/2 x 45	024877	1
2	Pipe TBE 1-1/2 x 4 -3/4	044943	1
3	Bushing, Hex 2 x 1-1/2	017288	1
4	Elbow, Street 1-1/4 x 90	017171	1
5	Bushing Face 2 x 1-1/4	017287	1
6	Filter Adapter 1-1/2" NPT Single Element CIM-TEK 810	025902	1
	Filter Adapter 2" NPT Double Element CIM-TEK 820	025903	1
7	Nozzle Hook	003719	1
8	Filter Element CIM-TEK 800-10 (Standard) or	025900	2
	Filter Element CIM-TEK HS10 (Hydro)	025901	2
9	Filter Gasket (Cold Weather Fluorosilicone) CIM-TEK 90546	M06450B001	2
10	Assy, Filter Cap and Gasket, High Capacity	R18896-G1	1
11	Strainer Insert, High Capacity	R19457	1

Warranty

For information on warranty, refer to MDE-4255 Gasboy's Warranty Policy Statement. If you have any warranty-related questions, contact Gasboy's Warranty Department at its Greensboro location.

Important Safety Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing this product. Before performing any task on this product, read this safety information and the applicable sections in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock or pressure release could occur and cause death or serious injury, if these safe service procedures are not followed.


Preliminary Precautions


You are working in a potentially dangerous environment of flammable fuels, vapors, and high voltage or pressures. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain or service this equipment.

Emergency Total Electrical Shut-Off

The first and most important information you must know is how to stop all fuel flow to the pump/dispenser and island. Locate the switch or circuit breakers that shut off all power to all fueling equipment, dispensing devices, and Submerged Turbine Pumps (STPs).

⚠ WARNING

 The EMERGENCY STOP, ALL STOP, and PUMP STOP buttons at the cashier's station WILL NOT shut off electrical power to the pump/dispenser. This means that even if you activate these stops, fuel may continue to flow uncontrolled.

 You must use the TOTAL ELECTRICAL SHUT-OFF in the case of an emergency and not the console's ALL STOP and PUMP STOP or similar keys.

Total Electrical Shut-Off Before Access

Any procedure that requires access to electrical components or the electronics of the dispenser requires total electrical shut off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing Gasboy equipment.

Evacuating, Barricading and Shutting Off

Any procedure that requires access to the pump/dispenser or STPs requires the following actions:



- An evacuation of all unauthorized persons and vehicles from the work area
- Use of safety tape, cones or barricades at the affected unit (s)
- A total electrical shut-off of the affected unit (s)

Read the Manual

Read, understand and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call a Gasboy Authorized Service Contractor or call the Gasboy Service Center at 1-800-444-5529. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

Follow the Regulations

Applicable information is available in National Fire Protection Association (NFPA) 30A; *Code for Motor Fuel Dispensing Facilities and Repair Garages*, NFPA 70; *National Electrical Code (NEC)*, Occupational Safety and Hazard Association (OSHA) regulations and federal, state, and local codes. All these regulations must be followed. Failure to install, inspect, maintain or service this equipment in accordance with these codes, regulations and standards may lead to legal citations with penalties or affect the safe use and operation of the equipment.

Replacement Parts

Use only genuine Gasboy replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gasboy replacement parts could create a safety hazard and violate local regulations.

Safety Symbols and Warning Words

This section provides important information about warning symbols and boxes.

Alert Symbol



This safety alert symbol is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazards. Obey safety directives that follow this symbol to avoid possible injury or death.

Signal Words

These signal words used in this manual and on warning labels tell you the seriousness of particular safety hazards. The precautions below must be followed to prevent death, injury or damage to the equipment:



DANGER: Alerts you to a hazard or unsafe practice which will result in death or serious injury.



WARNING: Alerts you to a hazard or unsafe practice that could result in death or serious injury.



CAUTION with Alert symbol: Designates a hazard or unsafe practice which may result in minor injury.

CAUTION without Alert symbol: Designates a hazard or unsafe practice which may result in property or equipment damage.

Working With Fuels and Electrical Energy

Prevent Explosions and Fires

Fuels and their vapors will explode or burn, if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause potentially dangerous vapors in the vicinity of the dispenser or island.

Important Safety Information

No Open Fire



Open flames from matches, lighters, welding torches or other sources can ignite fuels and their vapors.



No Sparks - No Smoking

Sparks from starting vehicles, starting or using power tools, burning cigarettes, cigars or pipes can also ignite fuels and their vapors. Static electricity, including an electrostatic charge on your body, can cause a spark sufficient to ignite fuel vapors. Every time you get out of a vehicle, touch the metal of your vehicle, to discharge any electrostatic charge before you approach the dispenser island.

Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Familiarize yourself with Cardiopulmonary Resuscitation (CPR) methods, if you work with or around high voltages. This information is available from the American Red Cross. Always advise the station personnel about where you will be working, and caution them not to activate power while you are working on the equipment. Use the OSHA Lockout/ Tagout procedures. If you are not familiar with this requirement, refer to this information in the service manual and OSHA documentation.

Working With Electricity Safely

Ensure that you use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock. Ensure that grounding connections are properly made. Take care that sealing devices and compounds are in place. Ensure that you do not pinch wires when replacing covers. Follow OSHA Lockout/Tagout requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Ensure that you clean hands after handling equipment. Do not place any equipment in the mouth.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause cancer.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause birth defects or other reproductive harm.

In an Emergency

Inform Emergency Personnel

Compile the following information and inform emergency personnel:

- Location of accident (for example, address, front/back of building, and so on)
- Nature of accident (for example, possible heart attack, run over by car, burns, and so on)
- Age of victim (for example, baby, teenager, middle-age, elderly)
- Whether or not victim has received first aid (for example, stopped bleeding by pressure, and so on)
- Whether or not a victim has vomited (for example, if swallowed or inhaled something, and so on)

WARNING



Gasoline ingested may cause unconsciousness and burns to internal organs.

Do not induce vomiting.

Keep airway open.

Oxygen may be needed at scene.

Seek medical advice immediately.

WARNING



Gasoline inhaled may cause unconsciousness and burns to lips, mouth and lungs.

Keep airway open.

Seek medical advice immediately.

WARNING



Gasoline spilled in eyes may cause burns to eye tissue.

Irrigate eyes with water for approximately 15 minutes.

Seek medical advice immediately.

WARNING



Gasoline spilled on skin may cause burns.

Wash area thoroughly with clear water.

Seek medical advice immediately.

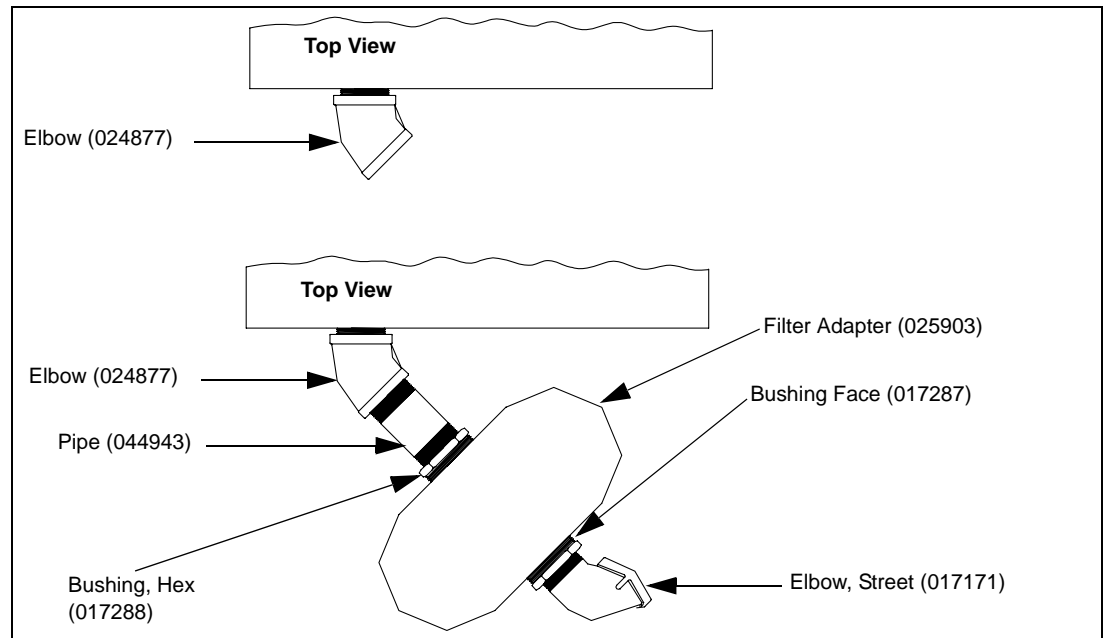
IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

Lockout/Tagout

Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical or other energy, but does not cover electrical hazards. Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/ Tagout provision for electrical hazards.

Installation of the Kit

Figure 1: Parts in the Gasboy External Filter Kit



To install the Gasboy External Filter Kit, proceed as follows:

- 1 Ensure that the power to the unit has been removed and locked out.
- 2 Release any residual pressure through the hose nozzle into an approved container.
- 3 Place an approved catch pan and absorbent material to collect any fuel.
- 4 Wear safety goggles and carefully remove existing piping.
- 5 Remove the discharge elbow from the unit and replace it with the 45° elbow (P/N 024877).
- 6 Install the 2 inch x 1-1/4 inch bushing (P/N 017288) to the filter adapter (P/N 025903). Use only UL-approved gas and oil resistant pipe compound on all pipe fittings on male threads only.

CAUTION

Placing pipe compound on female threads can force compound into piping and possibly cause a malfunction of the equipment.

- 7 Assemble the 1-1/4 inch x 90° elbow (P/N 017171) to the 2 inch x 1-1/4 inch bushing (P/N 017287).
- 8 Assemble the pipe nipple (P/N 044943) to 2-inch x 1-1/2 inch bushing (P/N 017288).

Installation of the Kit

- 9 Install assembly from steps 6 through 8 to 45° elbow (P/N 024877) installed in step 5.
- 10 Install the filter elements (not shown in [Figure 1 on page 5](#)) to filter adapter (P/N 025903).
Notes: 1) Standard filter element (P/N 025900) removes particulates only; Hydrosorb filter element (P/N 25901) removes water and particulates.
2) For operating environments with temperatures below 0° F (-17° C), use the cold weather blue fluorosilicone filter gaskets.
- 11 Remove the existing filter from the solenoid valve and filter manifold and replace with filter cap and gasket (P/N R18896-G1 - not shown).
- 12 Dispose of any fuel or absorbent material properly.
- 13 Remove the existing nozzle hook and retain screws.
- 14 Install the nozzle hook (P/N 003719 - not shown) using screws from step 13.
- 15 Put the unit into service and check for leaks and proper operation.

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