



Introduction

Purpose

This manual provides instructions for installing an External Filter Kit 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 using with a blue cold weather gasket.

This kit contains parts for the following models:

Kit Number	Filter Type	Pump Model
G032753	Hydro (particulate and water)	9850
G032752	Standard (particulate only)	
G032755	Hydro (particulate and water)	8853, 9853, 9153
G032754	Standard (particulate only)	8853, 9853, 9153

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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 (NEC®)
- 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 Contractors (ASCs) to ensure warranty.

Parts Lists

The following table lists the parts included in this these kits. Refer to [Figure 1](#) on [page 6](#) and [Figure 2](#) on [page 8](#) for the illustration showing the parts included in the kits.

G032752 and G032753			
Item	Description	Part Number	Quantity
1	Elbow, 1-1/2 x 45	G024877	1
2	Pipe TBE 1-1/2 x 4 -3/4	G044943	1
3	Bushing, Hex 2 x 1-1/2	G017288	1
4	Elbow, Street 1-1/4 x 90	G017171	1
5	Bushing Face 2 x 1-1/4	G017287	1
6	Filter Adapter 2" NPT Double Element CIM-TEK 820	G025903	1
7	Filter Element CIM-TEK 800-10 (Standard) or	G025900	2
	Filter Element CIM-TEK HS10 (Hydro)	G025901	2
8	Filter Gasket (Cold Weather Fluorosilicone) CIM-TEK 90546	M06450B001	2
9	Assy, Filter Cap and Gasket, High Capacity	R18896-G1	1
10	Strainer Insert, High Capacity	R19457	1

G032754 and G032755			
Item	Description	Part Number	Quantity
1	Bushing, Hex 1 x 1-1/2	G017289	2
2	Pipe TBE, 1 x 1-1/2	G038006	1
3	Filter Adapter 1-1/2" NPT Single Element CIM-TEK 810	G025902	1
4	Filter Element CIM-TEK 800-10 (Standard) or	G025900	1
	Filter Element CIM-TEK HS10 (Hydro)	G025901	1
5	Filter Gasket (Cold Weather Fluorosilicone) CIM-TEK 90546	M06450B001	2
6	Assy, Filter Cap and Gasket, High Capacity	R18896-G2	1
7	Strainer Insert, High Capacity	R19457	1

Abbreviations and Acronyms

The following are abbreviations and acronyms used in this document.

Term	Description
ASC	Authorized Service Contractor
CFR	Code of Federal Regulations
DEF	Diesel Exhaust Fluid
NEC	National Electrical Code
NFPA	National Fire Protection Association
OSHA	Occupational Safety and Health Administration
STP	Submerged Turbine Pump
UL	Underwriters Laboratories

Related Documentation

Document Number	Description	GOLD SM Library
MDE-4255	Gasboy's Warranty Policy Statement	Gasboy Policy document

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

Notes: 1) Save this Important Safety Information section in a readily accessible location.

2) Although DEF is non-flammable, Diesel is flammable. Therefore, for DEF cabinets that are attached to Diesel dispensers, follow all the notes in this section that pertain to flammable fuels.


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 Health Administration (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.

DEF is non-flammable. Therefore, explosion and fire safety warnings do not apply to DEF lines.

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

In the event of inclement weather, including snow, ice, or flooding that makes driving conditions dangerous, please avoid servicing units. Always use available door stops to secure upper doors against unwanted/unexpected movement, especially during high winds. If necessary, reschedule service to avoid damage to the equipment. Weather may change unexpectedly; be aware of local weather conditions. During service, if conditions develop making service unsafe, close the unit(s) and proceed to a safe location.

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.



Gilbarco Veeder-Root encourages the recycling of our products. Some products contain electronics, batteries, or other materials that may require special management practices depending on your location. Please refer to your local, state, or country regulations for these requirements.

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/DEF 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

DEF generates ammonia gas at higher temperatures. When opening enclosed panels, allow the unit to air out to avoid breathing vapors. If respiratory difficulties develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.

WARNING



Gasoline inhaled may cause unconsciousness and burns to lips, mouth and lungs. Keep airway open. Seek medical advice immediately.

WARNING



Gasoline/DEF spilled in eyes may cause burns to eye tissue. Irrigate eyes with water for approximately 15 minutes. Seek medical advice immediately.

WARNING



Gasoline/DEF spilled on skin may cause burns. Wash area thoroughly with clear water. Seek medical advice immediately.

WARNING

DEF is mildly corrosive. Avoid contact with eyes, skin, and clothing. Ensure that eyewash stations and safety showers are close to the work location. Seek medical advice/recommended treatment if DEF spills into eyes.

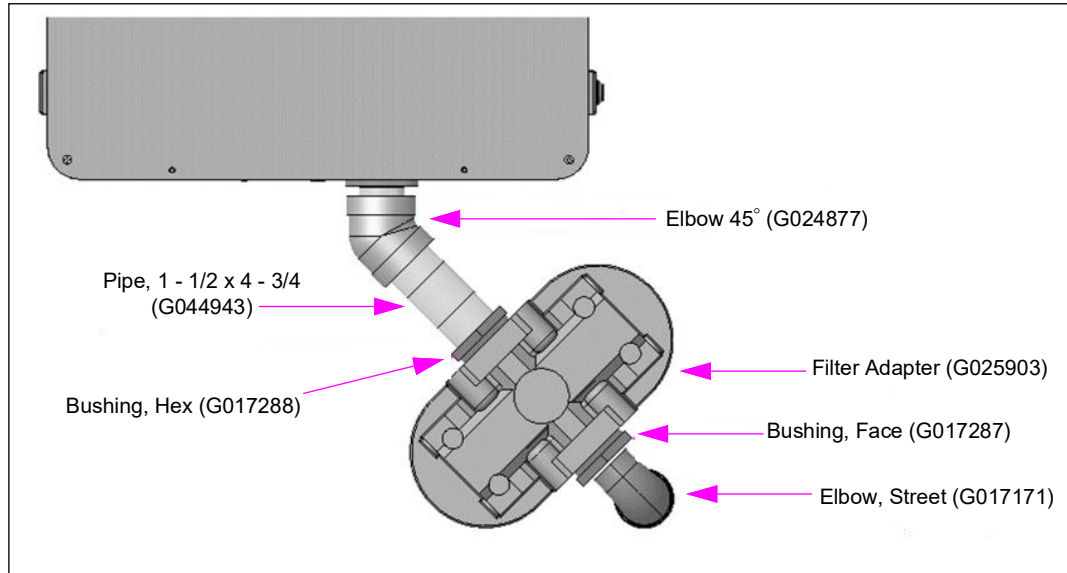
IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

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.

Installing the G032752 and G032753 Kits

Figure 1: Parts in the Gasboy External Filter Kit (G032752 and G032753)



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 the existing piping.
- 5 Remove the discharge elbow from the unit and replace it with the 45° Elbow (G024877).
- 6 Install the 2-inch x 1-1/4-inch Bushing (G017288) to the Filter Adapter (G025903). Use only UL-approved gas and oil resistant pipe compound on all pipe fittings on male threads only.

CAUTION

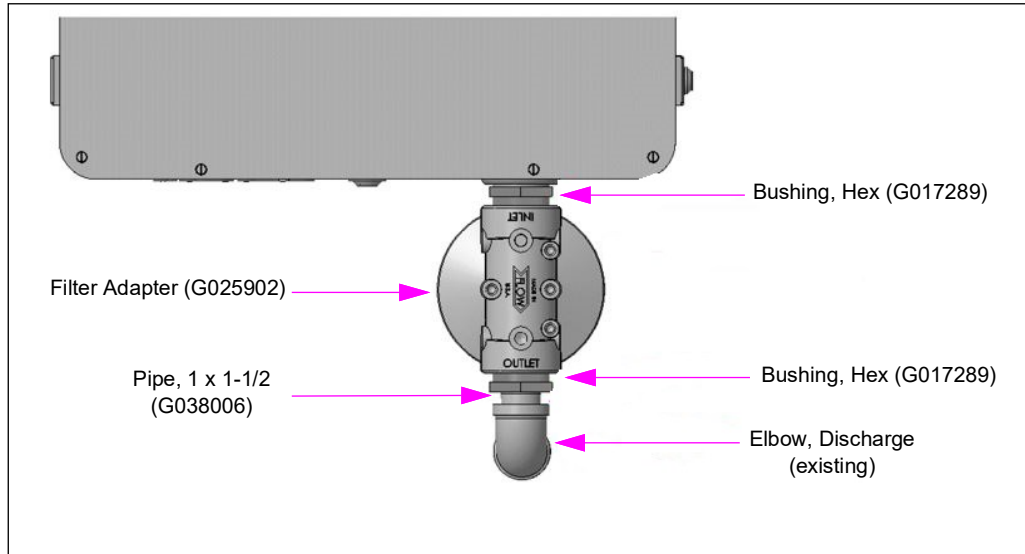
Placing pipe compound on female threads can force compound into piping and possibly cause a malfunction of the equipment.

- 7 Assemble the 1-1/4-inch x 90° Elbow (G017171) to the 2-inch x 1-1/4-inch Bushing (G017287).
- 8 Assemble the pipe Nipple (G044943) to 2-inch x 1-1/2-inch Bushing (G017288).

- 9 Install the assembly from steps 6 through 8 on [page 6](#) to 45° Elbow (G024877) installed in step 5 on [page 6](#).
- 10 Install the filter elements (not shown in [Figure 1](#) on [page 6](#)) to Filter Adapter (G025903).
Notes: 1) Standard filter element (G025900) removes particulates only; Hydrosorb filter element (G25901) 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 (R18896-G1 not shown).
- 12 Dispose of any fuel or absorbent material properly.
- 13 Put the unit into service and check for leaks and proper operation.

Installing the G032754 and G032755 Kits

Figure 2: Parts in the Gasboy External Filter Kit (G032754 and G032755)



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 the existing piping.
- 5 Remove the discharge elbow from the unit.
- 6 Install the two 1-inch x 1-1/2-inch Bushings (G017289) to the Filter Adapter (G025902). 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-inch x 90° elbow removed in step 5 to the 1-inch x 1-1/2-inch pipe Nipple (G038006).
- 8 Assemble the pipe Nipple (G044943) to 1-inch x 1-1/2-inch Bushing (G017289).

- 9 Install the assembly from steps 6 through 8 on [page 8](#) to discharge pipe exposed in step 5 on [page 8](#).
- 10 Install the filter elements (not shown in [Figure 2](#) on [page 8](#)) to Filter Adapter (G025902).
Notes: 1) Standard filter element (G025900) removes particulates only; Hydrosorb filter element (G25901) 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 (R18896-G2 not shown).
- 12 Dispose of any fuel or absorbent material properly.
- 13 Put the unit into service and check for leaks and proper operation.

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