

Introduction

Purpose

This manual provides instructions for installing the E25 Retrofit Kits (M12658K001/K002) on Encore® 300/500/500 S E-CIM™ remote control models:

- M12658K001 Kit for dispensers: NA0, NA1, NA2, NA3, NG1, NG6, NL0, NL1, NL2, and NL3.
- M12658K002 Kit for pumps: NC0, NC1, NC2, NC3, NG5, NG2, NG3, NN5, NN6, NN6, NN7, NL4, NL5, NL6, NJ1, and NJ3.

Note: Models NG1, NG6, and NL0-NL3 are X+1 configurations, where X indicates the number of blendable grades running through one hose on each side and +1 indicates a dedicated independent set of hydraulics.

E25 may only be on the +1 side (no ethanol blending). The E25 Retrofit Kits are used to upgrade the proportional valve Encore units (non-Ultra-Hi™) built after May 2003.

Dispenser Date Code (Build Date)

The date code is the first two characters in the unit's serial code. For example, serial number **EM**EN123456.



For a complete list of Gilbarco® date codes, refer to "Appendix: Date Codes" on page 22.

Notes: 1) These kits are required for dispensing E15 and E25 fuels.

- 2) The M12658K001 Kit is for standard Encore dispensers and is not designed for Ultra-Hi, multi-hose blender, or self-contained pumping units.
- 3) The M12658K002 Kit is for standard Encore self-contained pumping units and is not designed for Ultra-Hi and multi-hose blender units.
- M12658K001 Kit contains parts to upgrade one meter and manifold assembly for dispensers.
- M12658K002 Kit contains parts to upgrade one meter and manifold assembly for dispensers and pumping unit hydraulics.

Depending on the configuration, additional kits may be required to retrofit additional meter and manifold assemblies.

Intended Users

This manual is intended for Gilbarco-trained and certified Authorized Service Contractors (ASCs).

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Required Tools and Materials

The following tools and materials are required for installing the E25 Retrofit Kits on Encore units:

- 13-mm and 17-mm Socket
- Ladder
- Phillips® and Security Bit Screwdrivers
- Pipe Wrench
- Pipe Sealant
- Petroleum Jelly

Parts List

The following table lists the parts included in the M12658K001 E25 Retrofit Kit:

Item #	Description	Part Number	Quantity
1	Assembly, V Meter and Manifold Phase 1, with Inlet Pipe, E25	M13183A101	1
2	Screw, Metric M8 X 25	M00417B011	2
3	Label, Inlet, Flex Fuel	M08181B003	1
4	Assembly, Feedline Dispenser	M00302A001	1
5	Nut, Metric M8 Serrated	M00414B003	2
6	U-bolt, Metric, M8	M00703B002	1
7	Gasket O-ring 1.234 ID	Q12974-218	1
8	Label E25 Components (see Figure 1 on page 3)	M11305B001	1
9	Gasket O-ring 0.862 ID X 1.06	Q12974-118	6
10	Underwriters Laboratories (UL®) -listed By Report Label	M12879B001	2
11	Clamp, Parflange Double	M00133B001	4
12	Screw Metric M8 X 20	M00415B010	12
13	Parflange Clamp	N23908-01	2
14	Screw	M00417B109	4

The following table lists the parts included in the M12658K002 E25 Retrofit Kit:

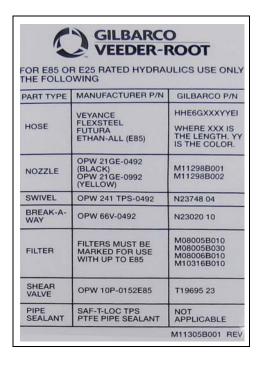
Item #	Description	Part Number	Quantity
1	Screw, Metric SERR Flange Hexagonal Head	M00415B009	8
2	Screw, Metric Thread Forming	M00417B009	2
3	Screw, Metric M8 X 25	M00417B011	2
4	Fitting, Sump Vent	M01344B001	1
5	Socket Head Cap Screw, Metric	M04973B001	2
6	Casting, Meter Discharge Elbow	M05398B030	1
7	Tube, Sump Vent	M06960B001	1

Item #	Description	Part Number	Quantity
8	Tube, Sump Vent	M06961B001	1
9	Label, Inlet, Flex Fuel	M08181B003	1
10	Pump Global Pumping Unit (GPU)	M04920B011	1
11	Label E25 Components (see Figure 1)	M11305B001	1
12	UL-listed By Report Label	M12879B001	2
13	Assembly, V Meter and Manifold Phase 1, with Inlet Pipe, E25	M13183A101	1
14	Parflange Clamp	N23908-01	2
15	Hexagonal Check Nut	Q10985-02	1
16	Connector 90 Elbow, Compression (Male)	Q12503-02	1
17	Gasket O-ring 0.862 ID X 1.06	Q12974-118	6
18	Gasket O-ring 1.109 ID	Q12974-216	1
19	Gasket O-ring 1.234 ID	Q12974-218	1

Prerequisites

E25 Components Label (M11305B001) contains the part number details required for different part types (see Figure 1). Other system components may have to be upgraded to be compatible with E25, for example, labels, hoses, nozzles, swivels, breakaways, filters, shear valves, pipe sealant, and Submersible Turbine Pumps (STPs).

Figure 1: E25 Components Label (M11305B001)



Related Documents

Document		
Number	Title	GOLD SM Library
MDE-3804	Encore and Eclipse® Start-up/Service Manual	 Encore and Eclipse Service Manual
MDE-3860	Programming Quick Reference Guide	Encore and Eclipse Encore and Eclipse Installers
PT-1936	Encore Series Pumps and Dispensers Illustrated Parts Manual	Encore and Eclipse Encore and Eclipse Installers Parts Manual
PT-1937	Encore 300, Encore 500/500 S, Encore 550, Encore 700 S, Eclipse Recommended Spare Parts Manual	Encore and Eclipse Encore and Eclipse Installers Parts Manual

Abbreviations and Acronyms

Term	Description
ASC	Authorized Service Contractor
CD	Computer Display
DEF	Diesel Exhaust Fluid
E15	Gasoline containing up to 15% Ethanol
E25	Gasoline containing up to 25% Ethanol
E-CIM	Enhanced Customer Interface Module
GOLD	Gilbarco Online Documentation
GPU	Global Pumping Unit
OSHA	Occupational Safety and Health Administration
STP	Submersible Turbine Pump
UL	Underwriters Laboratories

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

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.

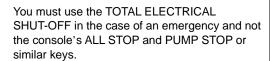
Emergency Total Electrical Shut-Off

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.



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 Gilbarco 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
- 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 the Gilbarco Technical Assistance Center (TAC) at 1-800-743-7501. 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 Gilbarco replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gilbarco 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

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/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 E25 Retrofit Kits on Encore Units

To install the E25 Retrofit Kits (M12658K001/K002) on Encore units, proceed as follows:

Before You Begin

Read and understand all the safety information found in MDE-3804 Encore and Eclipse Start-up/Service Manual.

↑ WARNING

Failure to turn off the unit during the kit installation may cause injury or bodily harm from electrical shock. Ensure that all power to the unit is switched off before opening the door to the unit and during the kit installation.

- 1 Inform the manager that the power must be removed from the unit.
- 2 Close the shear valves to all inlets and test dispenser to ensure no product flows with shear valve closed.

Note: Applicable for M12658K001 Kit only.

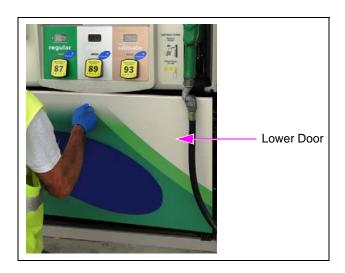
- **3** Remove all power supplied to the unit at the breaker located in the building.
- 4 Use OSHA lockout/tagout procedure for electrical circuits.
- **5** Block the unit from the customers.
- **6** Empty all the hoses into an approved container by cycling the hose nozzle valve.

Removing Existing Meter and Manifold Assembly

To remove the existing meter and manifold assembly, proceed as follows:

1 Remove both lower doors from the dispenser (see Figure 2).

Figure 2: Removing Lower Doors



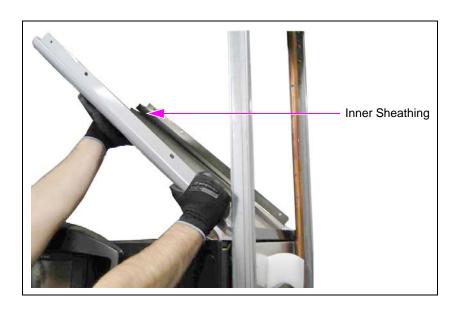
- 2 Open both bezel doors (main doors).
- **3** Remove the side sheathing by performing the following steps:
 - **a** Remove the outer sheathing on both sides of the dispenser by removing the four screws from each sheathing (see Figure 3) using a Phillips screwdriver. Retain the mounting screws and outer sheathing.

Figure 3: Removing Outer Sheathing



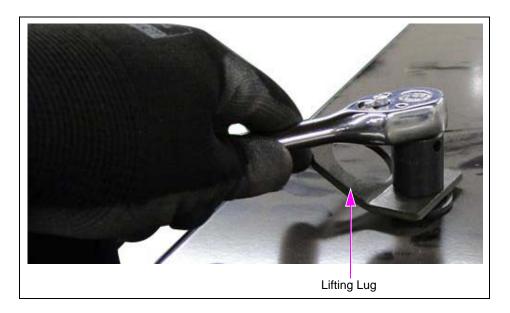
b Remove the inner sheathing on both sides of the dispenser (see Figure 4). Retain the inner sheathing and protect from damage.

Figure 4: Removing Inner Sheathing



- **4** Remove the upper housing cover and canopy by performing the following steps:
 - **a** Locate the four lifting lugs on top of the canopy.
 - **b** Remove the lifting lugs using a 17-mm socket and lift (see Figure 5). Retain the lifting lugs for reuse.

Figure 5: Removing Lifting Lugs



c Remove the upper hydraulic housing canopy. Retain the hardware, upper housing cover, and top cover.

Note: Two technicians are recommended for removing the cover.

5 Installation of this kit involves lowering and removing one of the meter and manifold assemblies. Identify the meter and manifold assembly to be replaced and examine the area below that assembly for field installed conduits that may interfere with removing the meter and manifold assembly.

Note: The kit cannot be installed if conduits interfere.

6 Locate the two outlet tubes from the selected meter and manifold assembly and make a note of the position of the tubes. Label the tubes for later reassembly.

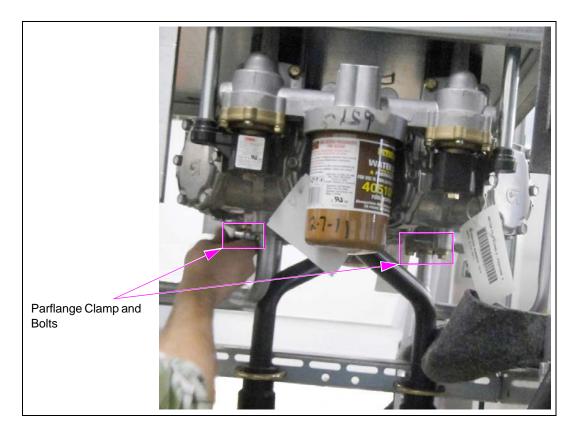
To remove the tubes from the meter and manifold assembly, proceed as follows:

IMPORTANT INFORMATION

Fuel must be drained into an approved container. Although the fuel is drained, there may be residual fuel in the meter and manifold assembly to be removed.

a Remove and discard the bolts and Parflange Clamp (M00133B001) securing the tubes to the meter and manifold assembly (see Figure 6).

Figure 6: Removing Parflange Clamp and Bolts



- **b** Remove the parflange clamp at the angle casting.
- **c** Remove the tubing assembly. Carefully handle the tubes, they will be reused.

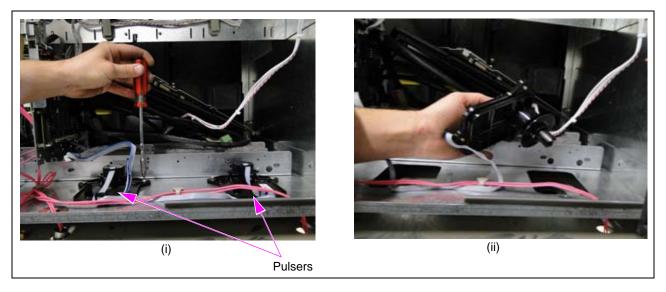
Repeat steps a to c for the second tubing assembly.

- **7** Remove the valve coils from the valve by removing the two nuts using a 13-mm socket and move them out of the way. Remove the meter and manifold assembly.
 - Notes: 1) It is not required to unplug the valve coils inside the Computer Display (CD) module. There is sufficient space to allow coiling to hang without interfering with the meter and manifold assembly removal.
 - 2) Retain the nuts for reuse.

8 Remove the pulsers by removing the screws from the CD module [keeping their connectors installed (see Figure 7 (i))] located at the meter and manifold assembly using a security bit screwdriver. Retain the pulsers and place them in the U-channel out of the way [see Figure 7 (ii)].

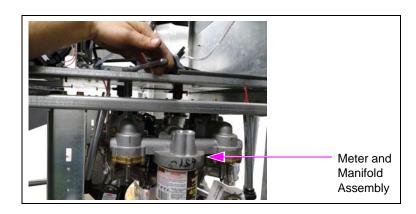
Note: Retain the screws for reuse.

Figure 7: Removing Pulsers



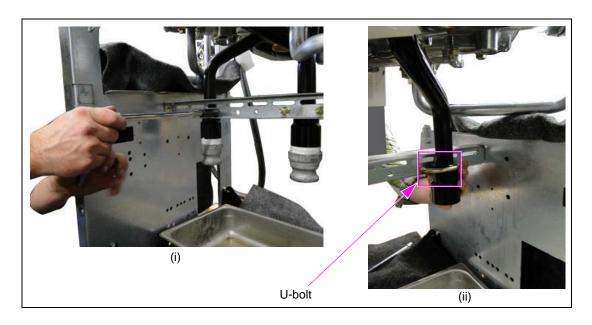
- **9** Remove the meter and manifold assembly by performing the following steps:
 - **a** Disconnect the union between the shear valve and meter and manifold assembly to be removed.
 - Note: Applicable for M12658K001 Kit only.
 - **b** Remove the piping and union assembly from the inlet tube using a pipe wrench and retain for later use.
 - Note: If installing the M12658K002 Kit, pump and tube may have to be removed together before removing the manifold assembly. For more information, refer to "Disconnecting Pump" on page 14.
 - **c** While supporting the meter and manifold assembly through the CD module, remove the two screws holding the meter and manifold assembly using a 13-mm socket (see Figure 8).
 - Note: To avoid damage to the meter and manifold assembly, ensure that the meter and manifold assembly is held or supported by someone before the last two screws are removed.

Figure 8: Removing Screws Holding Meter and Manifold Assembly



d Remove the U-bolt that holds the inlet to the rails using a 13-mm socket (see Figure 9).

Figure 9: Removing U-bolt



e Lift and remove the meter and manifold assembly.

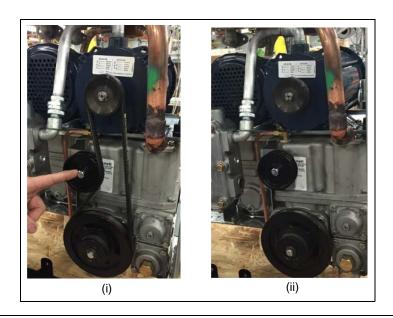
Note: If installing the M12658K001 Kit, proceed to "Installing V Meter and Manifold Assembly (M13183A101)" on page 14. If installing the M12658K002 Kit, proceed to "Disconnecting Pump" on page 14.

Removing Pulley Belt

Note: Applicable for M12658K002 Kit only.

Loosen the idle pulley and slip the belt off the motor wheel and pump wheel (see Figure 10).

Figure 10: Removing Pulley Belt

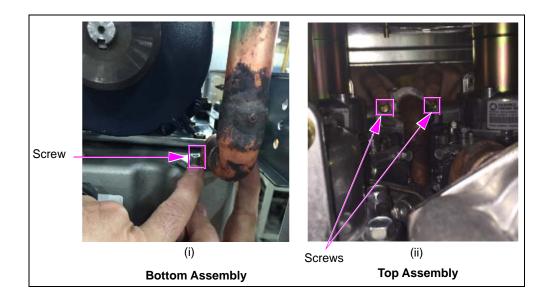


Disconnecting Manifold

Note: Applicable for M12658K002 Kit only.

To disconnect manifold, disconnect the screws holding the manifold assembly in place (see Figure 11).

Figure 11: Manifold Assembly and Feedline



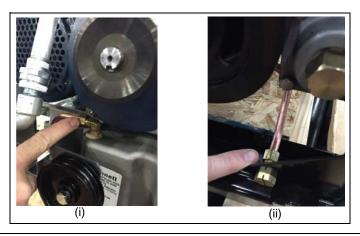
Disconnecting Vent Tube

Note: Applicable for M12658K002 Kit only.

Depending on the location of the pump being replaced, there are two vent tube configurations (M06960B001 and M06961B001).

To disconnect vent tube, remove the screws of the vent tube assembly located above pump pulley and between the hydraulic tray. The entire assembly needs to be replaced with a new assembly. Once tightened, the crimp deformed the vent tube to create a secure connection making the assembly hard to disassemble without damaging the vent tube. The bleed screw assembly is retained for reuse.

Figure 12: Vent Tube Connector Assembly

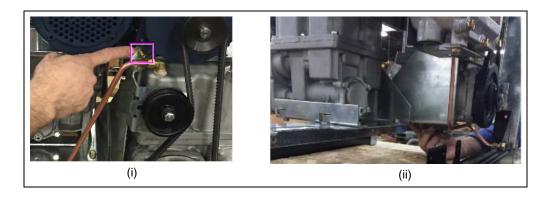


Disconnecting Pump

Note: Applicable for M12658K002 Kit only.

To disconnect the pump from the chassis, remove the screw connecting the bracket and the pump housing, and the four screws located on the bottom side of chassis holding the pump (see Figure 13).

Figure 13: Pump Mounting Assembly



Installing V Meter and Manifold Assembly (M13183A101)

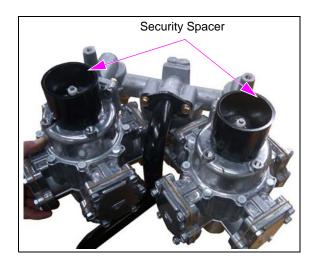
To install the new V meter and manifold assembly, proceed as follows:

IMPORTANT INFORMATION

It is a UL violation to substitute unplated parts where plated parts are required in the hydraulics.

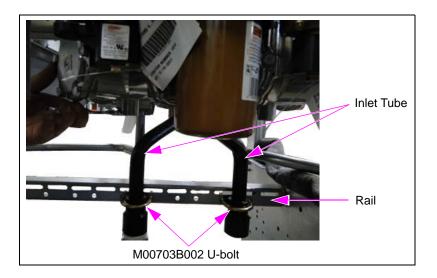
- 1 Locate the pipe and union assembly removed in step 9 (b) on page 11. Clean the threads on the pipe and union assembly and apply saf-t-loc-tps-ptfe pipe sealing to the threads. Thread the assembly to the inlet tube in the V meter and manifold assembly and tighten.
- 2 Place the Security Spacer (M13805B001) on the V meter and manifold assembly (see Figure 14).

Figure 14: Security Spacer on V Meter and Manifold Assembly



- 3 Move the V meter and manifold assembly into the lower hydraulics enclosure and position as shown in Figure 15. When properly positioned, the two threaded openings on the top of the V meter and manifold assembly lines up with two holes in the lower air gap. Mount the meter manifold assembly to the air gap using two M8 X 20 Screws (M00415B010).
 - If installing the M12658K002 Kit, proceed to "Installing E25 Pump" on page 19. For M12658K001 Kit, proceed to step 4 through step 17 on page 18.
- **4** Mount the inlet tube to the rail (see Figure 15) and secure the tube to the dispenser using the M00703B002 U-bolt and M00414B003 Nuts.
 - Note: If impact occurs, verify that the tube is mounted properly to ensure proper shear valve operation.

Figure 15: Mounting Inlet Tube to Rail

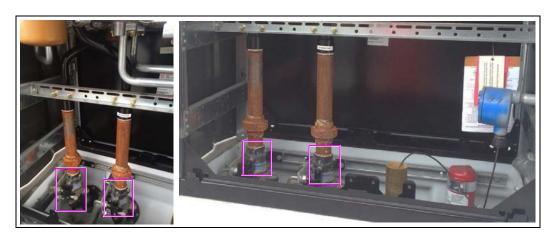


5 Reattach the piping union between the shear valve and inlet tubing (see Figure 16). *Note: You may have to replace the shear valve to be compatible with E25.*

IMPORTANT INFORMATION

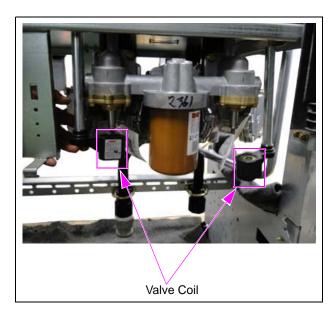
The current shear valve may or may not be compatible and stand up over time with the E25 product. For additional information on compatibility, contact the shear valve manufacturer.

Figure 16: Reattaching Inlet



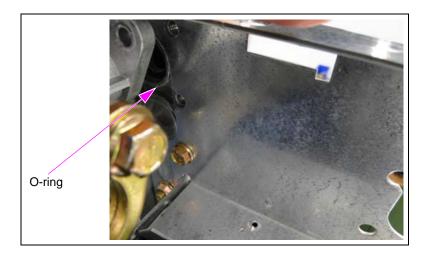
6 Secure the two valve coils to the valve on the V meter and manifold assembly using the two nuts removed in step 7 on page 10 (see Figure 17). Ensure that the conduit extends through the air gap and into the electrical enclosure.

Figure 17: Securing Valve Coils



- 7 Replace the pulsers into their original position in the electronic enclosure and secure using the screws removed in step 8 on page 11.
- **8** Remove the O-ring from the bottom of the angle casting at locations where the two tubings were removed in step 6 on page 9. For each angle casting with tubing, remove the two screws that secure the angle casting and retain for reuse.

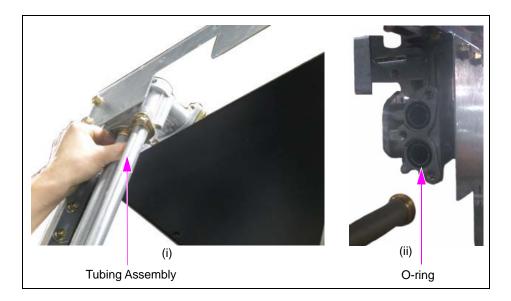
Figure 18: Removing O-ring



9 Gently pull back the angle casting to allow access to the outlet casting O-ring.

10 Remove the O-ring and replace it with the new Q12974-118 O-ring. *Note: Ensure that you apply a coat of petroleum jelly on the O-rings.*

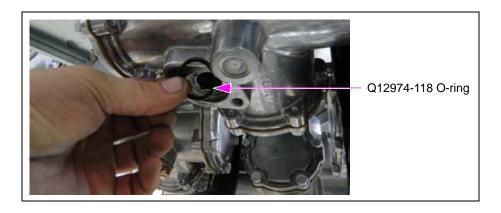
Figure 19: Replacing O-rings



- 11 Reattach the angle casting to the outlet casting using the two screws retained previously.
- **12** Locate the tubing assembly and place them in their original locations using the marking applied to the tubing.
- 13 Fit the appropriate ends of the tubing along with the new Q12974-118 O-ring into the angle casting. Locate the parflange clamp and three screws. Place the parflange clamp over the tubing connections at the angle casting as shown in Figure 19 and tighten using the three screws.
- **14** Insert the Q12974-118 O-ring into the opening in the V meter and manifold assembly as shown in Figure 20.

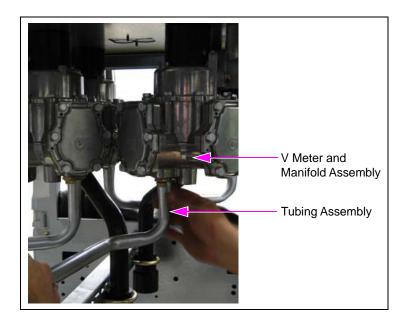
Note: Apply light coating of petroleum jelly to O-ring surfaces.

Figure 20: Fitting Tubing into Outlet Casting



15 Place the V meter and manifold assembly end of the tubing assembly into the opening in the V meter and manifold assembly. Locate the bracket and screws, and secure the bracket to the V meter and manifold assembly using the screws as shown in Figure 21.

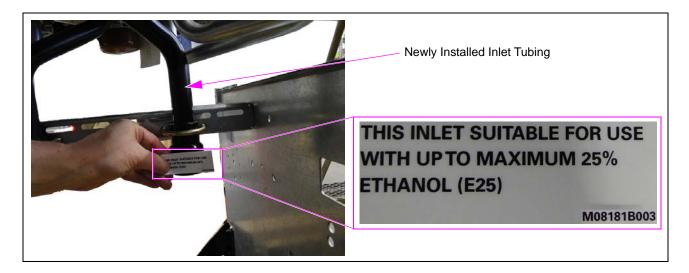
Figure 21: Placing Tubing Assembly



Repeat the steps 12 through 14 on page 17 to install the second tubing assembly.

- **16** Reconnect the union.
- 17 Add the Inlet Tube Label (M08181B003) on the newly installed inlet tube (see Figure 22).

Figure 22: Applying Inlet Label



Installing E25 Pump

Note: Applicable for M12658K002 Kit only.

To install E25 pump, proceed as follows:

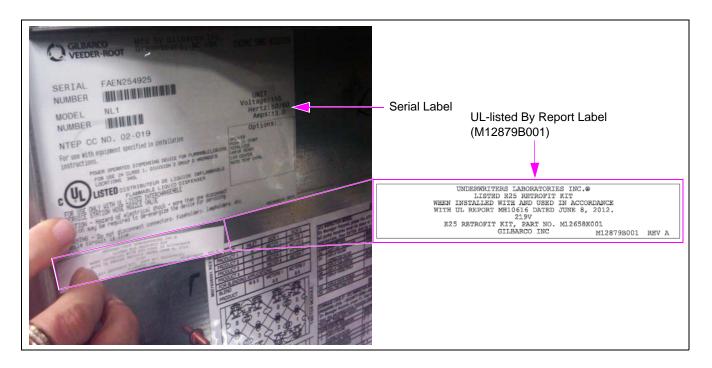
- 1 Slide the E25 pump into place.
- 2 Connect the pump onto the chassis. To connect the pump onto the chassis, proceed as follows:
 - **a** Align the pump to the brackets and connect the bracket and the pump housing together.
 - **b** Tighten the four screws located on the bottom side of the pump to secure the pump to chassis.
- **3** Using screws, connect the manifold assembly to pump body and connect other end of manifold body to meter body assembly.
- **4** Assemble the vent tube assembly. Identify the correct vent sump tube configuration. The entire assembly needs to be replaced with a new assembly.
- 5 Tighten the feedline to create a secure connection making the assembly difficult to disassembly without damaging the feedline (see Figure 12 on page 13).
- **6** Assemble belt onto the pump pulley and the motor pulley (see Figure 10 on page 12). Ensure that the belt is secured properly.

Completing Installation

After completing the installation of the manifolds, perform the following steps to complete the installation of the E25 Retrofit Kits:

1 Add the UL-listed By Report Label (M12879B001) near the serial label (see Figure 23).

Figure 23: Adding UL-listed By Report Label



- **2** Close the electronic door.
- **3** Open the shear valves.

Note: Applicable for M12658K001 Kit only.

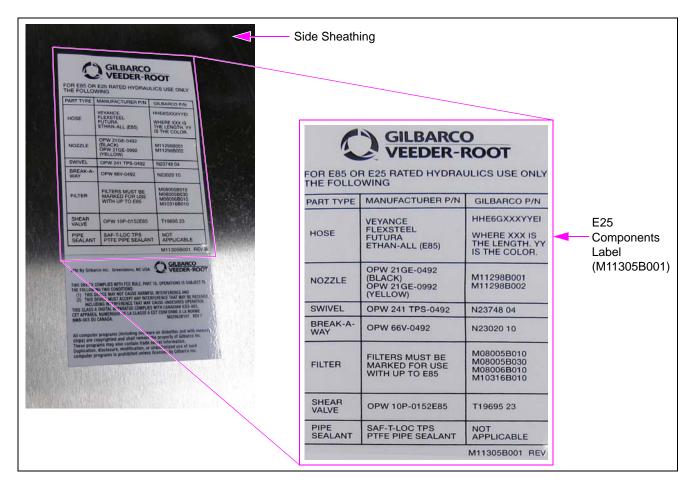
4 Repressurize the unit.

Note: Applicable for M12658K001 Kit only.

- **5** Restore power to the unit.
- **6** Authorize a sale and turn on the shear valves.
- 7 Check for leaks. Examine all the liquid joints for signs of leakage.
- **8** Purge the air from the unit.
- **9** Calibrate the unit.
- **10** Retain all the hydraulic components that were removed from the unit during retrofit and dispose it properly.
- 11 Reinstall the upper housing cover and canopy.
- **12** Reinstall the inner side sheathing.

13 Apply the E25 Components Label (M11305B001) on the side sheathing (see Figure 24).

Figure 24: Applying E25 Components Label



14 Install the lower panel.

Installing the E25 Retrofit Kits (M12658K001/K002) on Encore units is now complete.

Appendix: Date Codes

The date code provides the month and year of manufacture. To determine date codes, refer to the following chart:

Month Codes		
A = January	E = May	J = September
B = February	F = June	K = October
C = March	G = July	L = November
D = April	H = August	M = December
Year Codes		
H = 1999		
J = 2000	R = 2006	A = 2012
K = 2001	S = 2007	B = 2013
L = 2002	T = 2008	C = 2014
M = 2003	U = 2009	D = 2015
N = 2004	W = 2010	E = 2016
P = 2005	X = 2011	F = 2017

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