



Introduction

Purpose

This document provides installation instructions for Gasboy® 9800A/2600A Pump Interface Kits.

Table of Contents

| Topic | Page |
|--|------|
| Introduction | 1 |
| Important Safety Information | 3 |
| Installation of the 9800A/2600A Pump Interface Kit | 5 |
| Pulse-out I/F Board (M06587A001) Jumper Settings | 9 |

Required Tools

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

- Phillips® Screwdriver
- Wrench

Parts List

The following table lists the parts included in the Pump Interface Kits, C06482 and C07357.

| Item | Description | Part Number | Quantity | |
|------|---------------------------|-------------|----------|--------|
| | | | C06482 | C07357 |
| 1 | Pump I/F PCB | M06587A001 | 1 | 1 |
| 2 | Standoff, M/F 6-32 3/4" | C08381 | 2 | 2 |
| 3 | Washer, #6 External Tooth | 068843 | 2 | 2 |
| 4 | Screw, 6-32 x 3/8 | C08759 | 2 | 2 |

Note: The C07357 kit is for use on single-sided dispensers only.

Related Documents

| Document Number | Title | GOLD Library |
|-----------------|---|-------------------------------|
| MDE-4331 | Atlas™ Fuel Systems Installation Manual | Gasboy Atlas Pumps/Dispensers |
| MDE-4334 | Atlas Start-up/Service Manual | Gasboy Atlas Pumps/Dispensers |
| MDE-4341 | Series 9800A/9800Q Pump and Dispenser Installation/Operation Manual | Gasboy Atlas Pumps/Dispensers |

Abbreviations and Acronyms

| Term | Description |
|------|-------------------------|
| CPU | Central Processing Unit |
| PCB | Printer Circuit Board |

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.

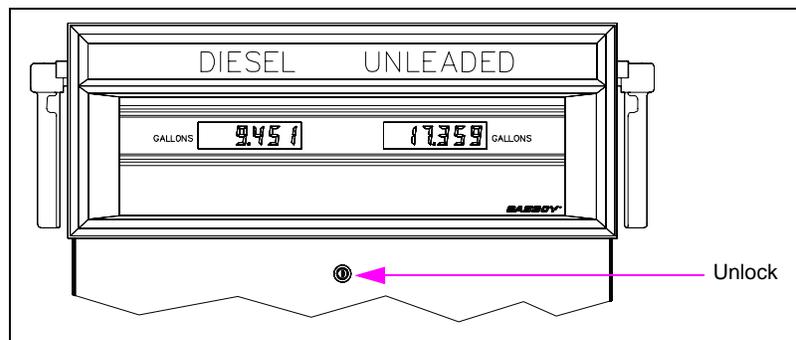
Installation of the 9800A/2600A Pump Interface Kit

Installing these kits involves DC wiring to the Fuel Management System. Read the MDE-4341 Series 9800A/9800Q Pump and Dispenser Installation/Operation Manual and your Fuel Management System Installation Manual before you proceed. Also refer to [Figure 7](#) on [page 10](#) and [Figure 8](#) on [page 11](#).

To install the Pump Interface Kits, proceed as follows:

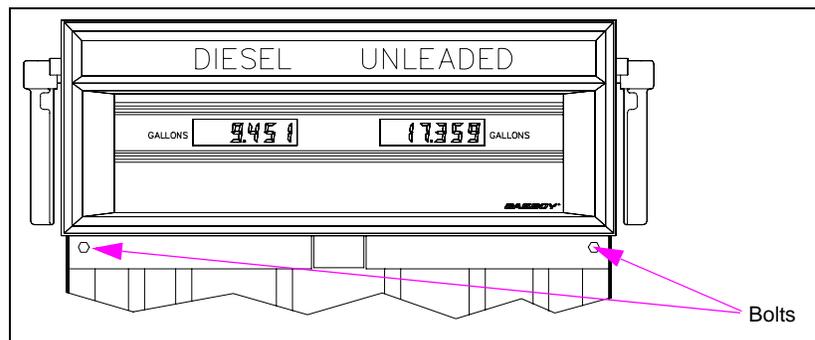
- 1 Turn off the Circuit Breakers that supply power to the MICRO, LIGHTS, and FEED.
- 2 Unlock and remove the front panel.

Figure 1: Unlocking the Front Panel



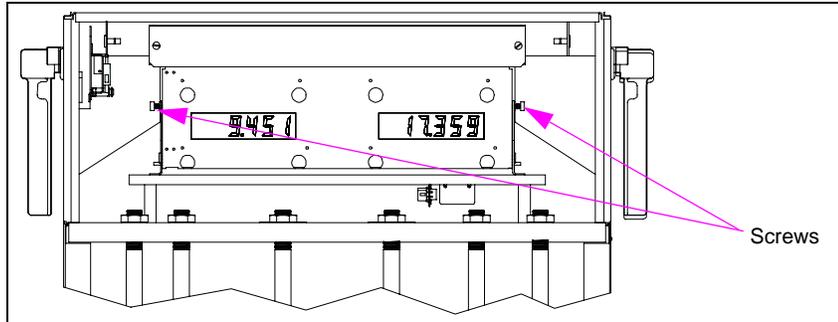
- 3 Remove the two bolts located over the tabs of the Bezel Assembly. Lift the Bezel Assembly upwards and out to remove.

Figure 2: Removing the Bolts on the Front Panel



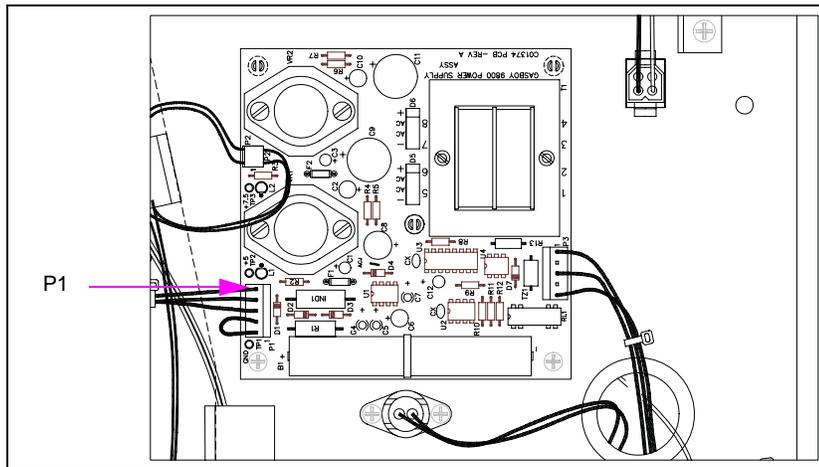
- 4 Loosen and remove (if necessary) the two screws located on the left and right door support brackets and pivot the Display Panel down.

Figure 3: Removing the Screws on the Front Panel



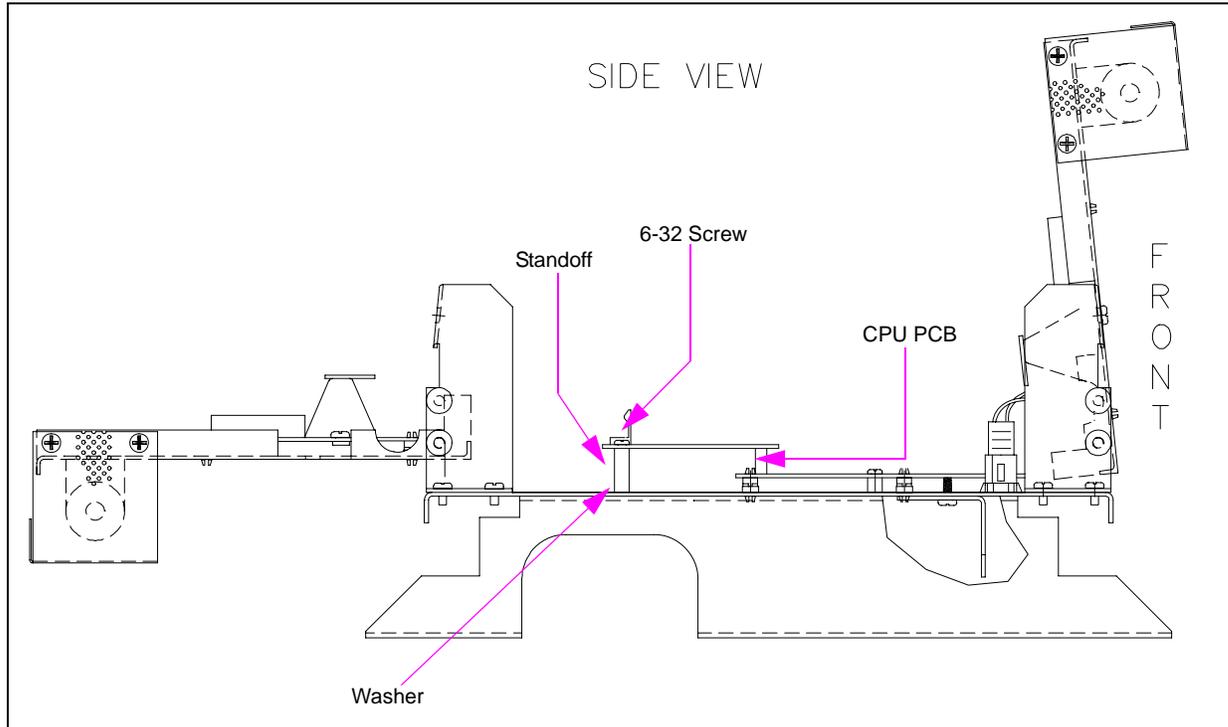
- 5 Pull the connector off P1 on the Power Supply. After a few seconds, reconnect P1 (see Figure 4).

Figure 4: Power Supply



- 6 Slip the washers onto the threaded end of the standoffs. Screw the standoffs on the platform base (see Figure 5).
Note: Newer platforms will have two pre-fixed standoffs, in which case, the loose washers and standoffs will not be used.

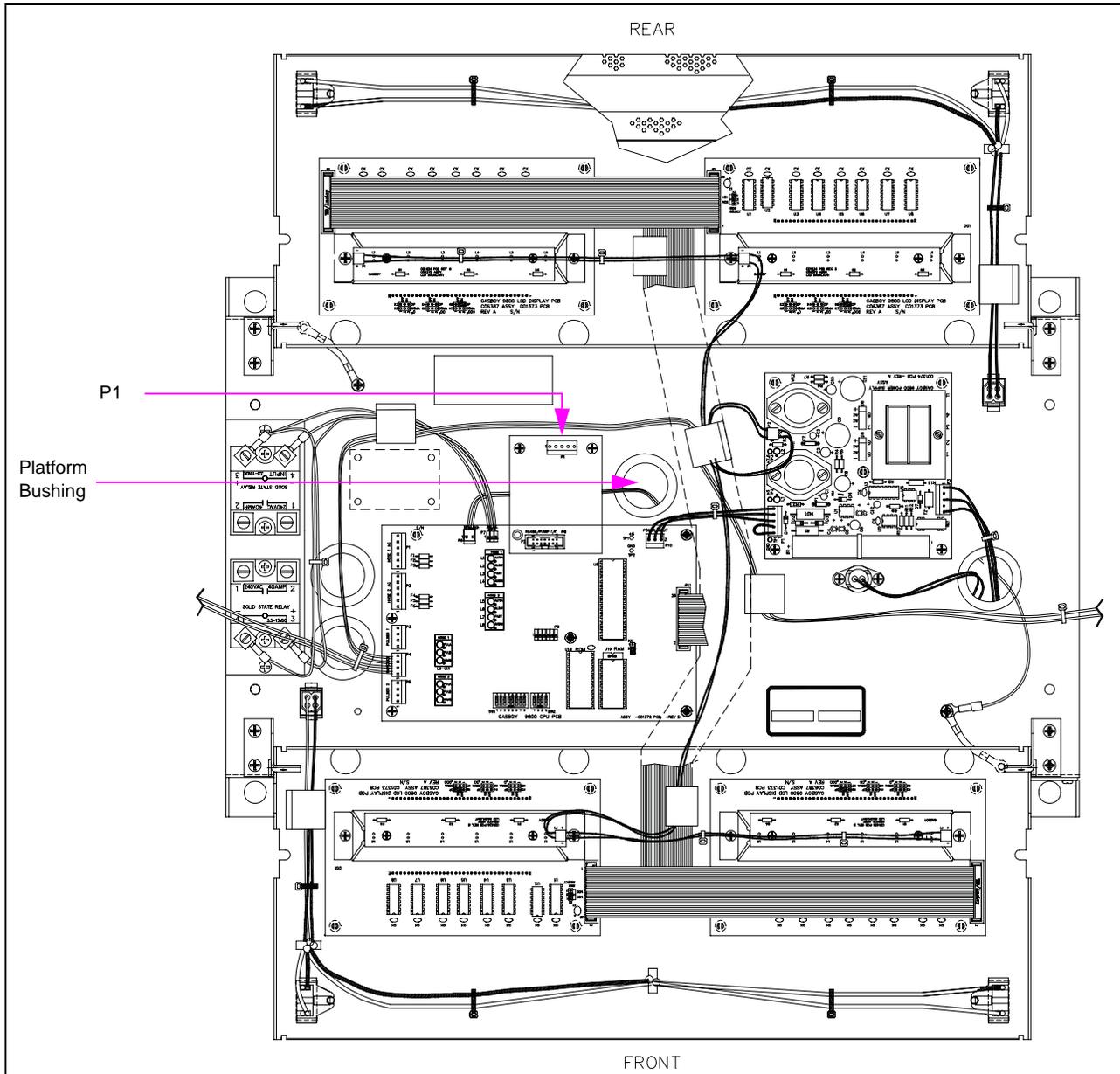
Figure 5: Side View



- 7 Connect the Pump I/F PCB to P8 of the CPU PCB.
- 8 Secure the PCB using two 6-32 screws.

- 9 Feed the DC Cable up through the platform bushing. The DC Cable is a 4-conductor Gray Cable with red, green, white, and black wires terminated to a 5-position connector; it is part of the DC Conduit Assembly. Attach the DC Cable to P1 of the Pump I/F PCB (P1 is a 4-pin connector). Ensure that you align Pin 1 of the Cable Connector with Pin 1 of the P1 Connector. If present, Pin 5 of the Cable Connector is not used and will hang off to the end of the P1 Connector.

Figure 6: Platform Assembly



- 10 Connect the wiring between the Card System and DC Junction Box as shown in MDE-4341 Series 9800A/9800Q Pump and Dispenser Installation/Operation Manual.
- 11 Secure the Display Panel in the upright position.

- 12 Attach the Bezel. Ensure that the Bezel is seated properly to ensure a watertight seal.
- 13 Attach and lock the front panel.
- 14 Turn on the Circuit Breakers.

Pulse-out I/F Board (M06587A001) Jumper Settings

Jumpers JP1, JP2, and JP3

This Board Assembly can be configured for use in one of the following pump/dispenser configurations:

- Single-channel, Dual/Single-hose Pulse-out I/F (see [Figure 7](#) on [page 10](#))
- Dual-channel, Single-hose Pulse-out I/F (see [Figure 8](#) on [page 11](#))

The chart below shows the jumper settings and wires to connect to in the Junction Box, based on the configuration.

Check JP1 - JP3 jumpers and change them, if necessary. The jumper settings must be changed only when the power to the pump/dispenser is removed, to protect the circuit that they are connected to.

For models 9800A, 2600A, or 9800Q, the P3 connector is not connected.

| Wire Color | Jumper Settings | |
|------------|--|---|
| | Single-channel, Dual/Single-hose Pulse-out I/F (Default Setting) | Dual-channel, Single-hose Pulse-out I/F (C07357 kits) |
| | JP1 Position 1 JP2 Position 1 JP3 Open | JP1 Position 2 JP2 Position 2 JP3 Open |
| Red | Pulse-out Side 1 | Pulse-out Side1A |
| Green | Pulse-out Side 2 | Pulse-out Side1B |
| White | Common Return | Side 1A Return |
| Black | No Connection | Side 1B Return |

Jumpers JP4 and JP5

When this board is used in a model A or Q pump/dispenser or 9850K, jumpers JP4 and JP5 are set to the Q/A position.

Figure 7 illustrates the proper output for using a Pump I/F Board (M06587A001) jumpered to provide two pulse outputs, one from each Pulser (C06482 kits).

Figure 7: Single-channel, Dual/Single-hose Pulse-out I/F

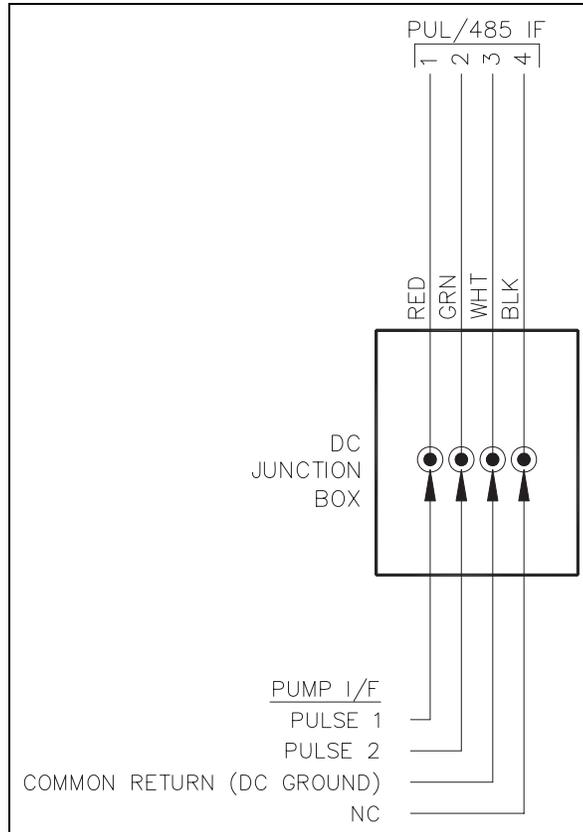
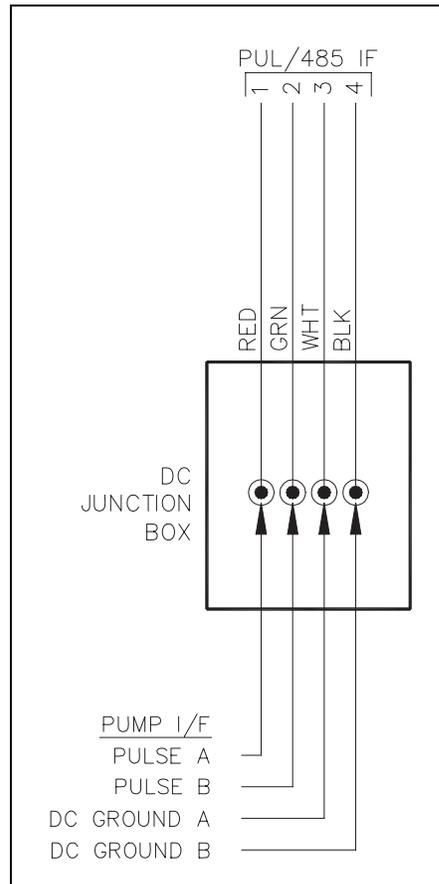


Figure 8 illustrates the proper output for using a Pump I/F Board (M06587A001), jumpered to provide two isolated pulse outputs from a single Pulser (C07357 kits). This option is available only for 9800A or 9800Q single pumps/dispensers.

Figure 8: Dual-channel, Single-hose Pulse-out I/F



Note: 1) All wiring and conduit runs must conform with all building/fire codes, all Federal, State, and Local codes, National Electrical Code, (NFPA 70), NFPA 30, and Automotive and Marine Service Station Code (NFPA 30A) and regulations. Canadian users must also comply with the Canadian Electrical Code.

2) Refer to MDE-4341 Series 9800A/9800Q Pump and Dispenser Installation/Operation Manual for complete installation instructions.

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