

Safety Symbols

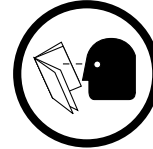
The following Safety Symbols are used throughout this document to alert you for important safety precautions.



Explosive



Flammable

Read all related
manuals.

Power off.

Emergency
Power Cutoff

WARNING

- Spilled fuels or operation of pump/dispenser with fuel vapor present is hazardous.
- Serious fire/explosion and injury/death may result if fuel/vapor is ignited.
- Install emergency power cutoff per NEC, NFPA and local codes. Use emergency power cutoff if fuel spillage, fire, or an accident occurs in pump/dispenser vicinity.

This document is subject to change without notice.

© 1991 Gilbarco Inc.
All Rights Reserved

INSTALLATION INSTRUCTIONS

OVERVIEW

This pump handle switch kit provides a means of upgrading early model Highline™111B and MPD™ units (Pre 1983) to a water resistant switch. Water in and/or around the old style pump handle switch and connections may cause a permanent PUMP-SWITCH-ON condition in the Highline 111B or MPD.

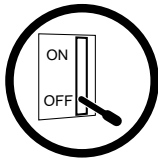
The new switch assembly is a bolt on replacement for the old part. No modification of the Highline 111B or MPD is required to install this kit.

PARTS LIST

Before attempting installation, ensure all parts are present for each kit.

Part Number	Description	Quantity
K81105-20	Wire Connector	2
K90978	Switch Assembly	1
Q10178-01	Ty-rap	1
Q10991-01	Ty-rap Mount	1

GENERAL PRECAUTIONS






Power off.

SAFETY

Remove all AC power to the pump or dispenser and to the applicable STP's.


Observe all safety precautions appropriate to working in a fueling environment.

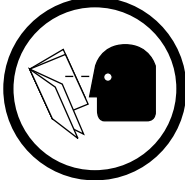
 **WARNING**

- You are working in a dangerous environment. Fuels are highly flammable and explosive.
- Failure to observe all safety precautions could result in injury or death.
- Observe all safety precautions as described by safety symbols.

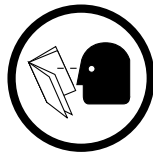
INSTALLATION INSTRUCTIONS

 **WARNING**



- Unknowledgeable or untrained individuals servicing hydraulic equipment can create safety hazards or accidents.
- Fire, explosion, electrical shock or serious bodily injury could result.
- Read all instructions.
Do not allow untrained or unauthorized individuals to service equipment.
Call a Gilbarco Authorized Service Contractor if you do not understand service or safety procedures.

This kit is intended for installation only by qualified service personnel. Do not allow untrained or unauthorized personnel to service equipment.



Read all related manuals.

To reduce the possibility of an accident, read and understand all information included with this kit prior to beginning installation. Routine service procedures are not explained. If more information is required, contact Gilbarco Technical Services.



WARNING

The hazard or unsafe practice **could** result in severe injury or death.

INSTALLATION INSTRUCTIONS

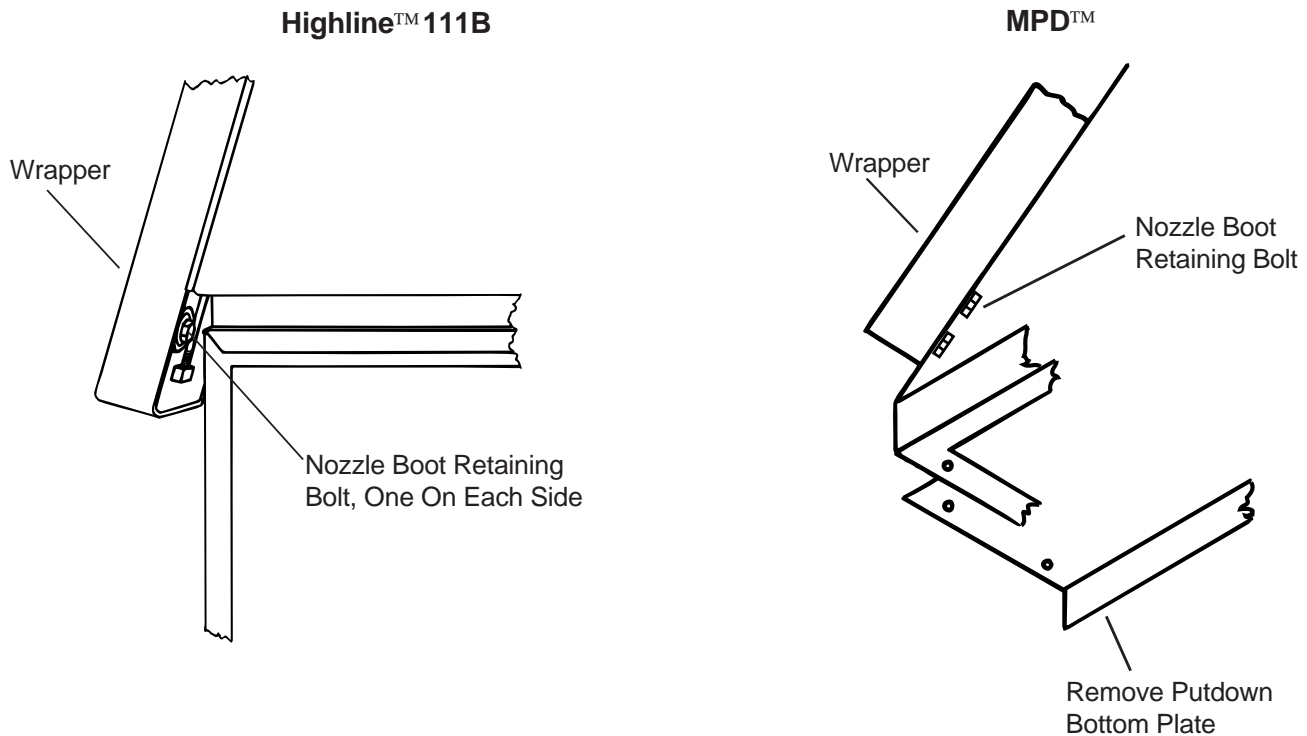
INSTALLATION



Power off.

1. Record all electronic pump totals, prices, and any other pertinent information.
2. Using the system circuit breakers, remove all power from the unit, (including STP power). Isolate the unit from the two-wire system by moving the switch in the distribution box to the ISOLATE position.
3. Remove the nozzle boot assembly by removing the two retaining bolts (Figure 1) on the underside of the wrapper, near the pump handle lever.

Figure 1: Nozzle Putdown Assemblies

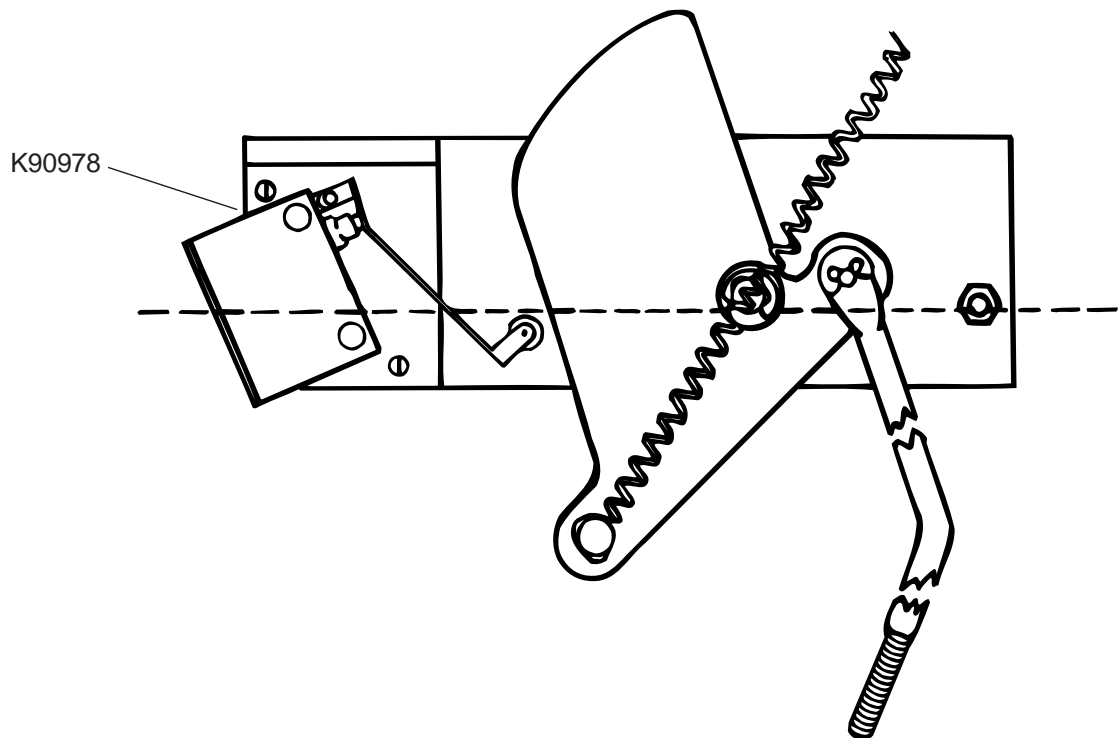


4. With the pump handle lever in the OFF position, carefully draw the lower edge of the nozzle boot assembly toward you allowing it to drop out of the catch at the top.
5. Disconnect the two wire fasteners connecting the IS barrier cable to the old switch.
6. Remove the old switch by removing the two mounting screws attaching it to the mounting flange on the cam assembly. Save the screws.

INSTALLATION INSTRUCTIONS

7. Mount the new water tight Switch Assembly (K90978) on the switch mounting flange with the screws from the old switch. Mount the switch in the position as shown in Figure 2. Do not tighten the screws because later adjustment will be required.
8. Connect the new switch wiring to the IS Barrier wires using the Wire Connectors supplied (K81105-20). There is no polarity requirement. Use an RT adhesive (Gilbarco part #END1576 may be used) to seal the connections so water cannot enter.
9. Attach the Ty-rap mount (Q10991-01) to the back wall of the nozzle putdown assembly.
10. Tie the wire connectors to the Ty-Rap mount using the Ty-Rap (Q10178-01) provided.

Figure 2: Switch Mounting

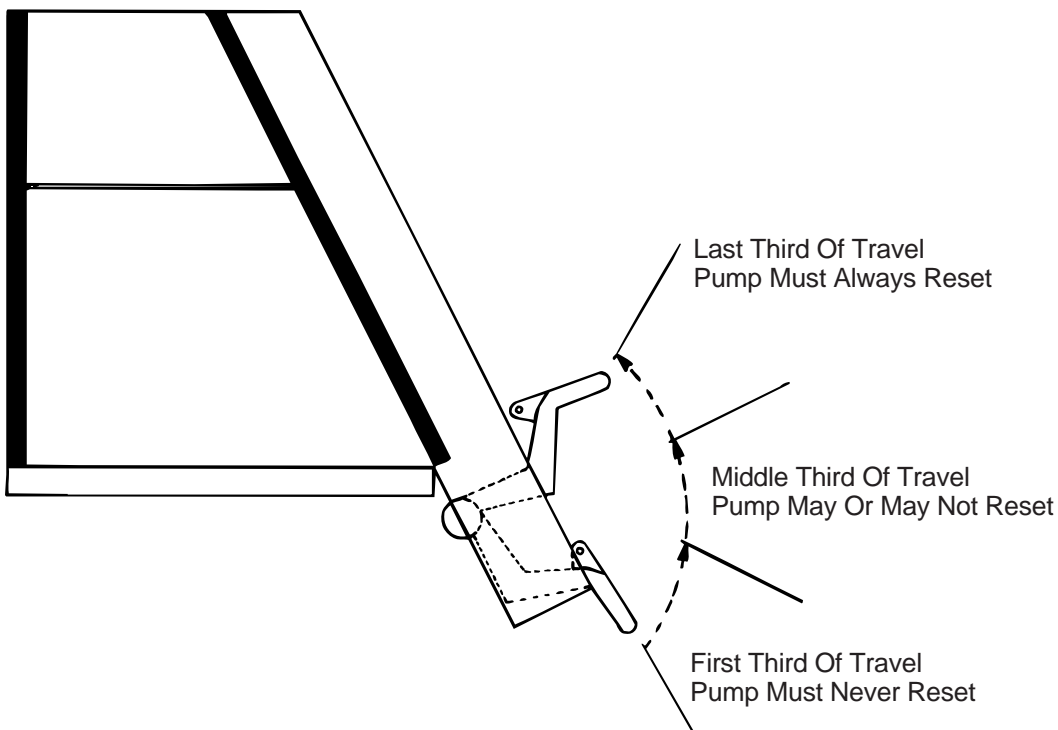


INSTALLATION INSTRUCTIONS

PUMP HANDLE SWITCH ADJUSTMENT

1. Place unit in Standalone. Power unit down and back up again. Unit will now respond to pump handle testing without interfering with forecourt operation.
2. Move pump handle to ON position. See that unit always resets when pump handle is turned on.
3. Move pump handle to OFF position. Wait five seconds and then slowly move pump handle up toward ON position. Note unit display and at what point in travel of pump handle the unit goes into reset. The pump handle should be raised sufficiently so that it is impossible to insert nozzle into boot and yet some travel should remain to the pump handle on stop.
4. Repeat the above step adjusting the switch position until you are satisfied the switch adjustment criteria is met (See Figure 3). Tighten the screws.

Figure 3: Switch Adjustment



INSTALLATION INSTRUCTIONS

5. Install nozzle boot assembly by reversing the removal procedure.
6. Install nozzle into boot. Lift pump handle with nozzle in boot. It must be impossible to cause the unit to go into reset under these conditions. If pump resets, remove nozzle boot face plate assembly and repeat the adjustment procedures. When proper adjustment is achieved, continue on to next step.
7. Move two-wire switch back to ON position, power unit down and back up again, then move distribution box switch for that unit to NORMAL position. Installation is now complete.

