

## Introduction

This manual provides instructions for replacing hose casting outlet for Encore® units. The kit numbers are M05612K010 and M05612K040.

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## Required Tools

Following tools are required for replacing hose casting outlet for Encore units:

- Crescent or Smooth Face Wrench
- UL®-approved Pipe Sealant suitable for the fluid involved
- Socket Set
- Silicone Grease
- Ladder
- Approved Container for collecting fuel (installed units only)
- Pliers for testing shear valve (installed units only)
- Full Face Shield Eye Protection (installed units only)
- Dial Caliper Gauge or Measure (Feeler) Gauge (M12499)
- Clean Strong Rag

## Replacing the Hose Casting Outlet

### Prerequisites

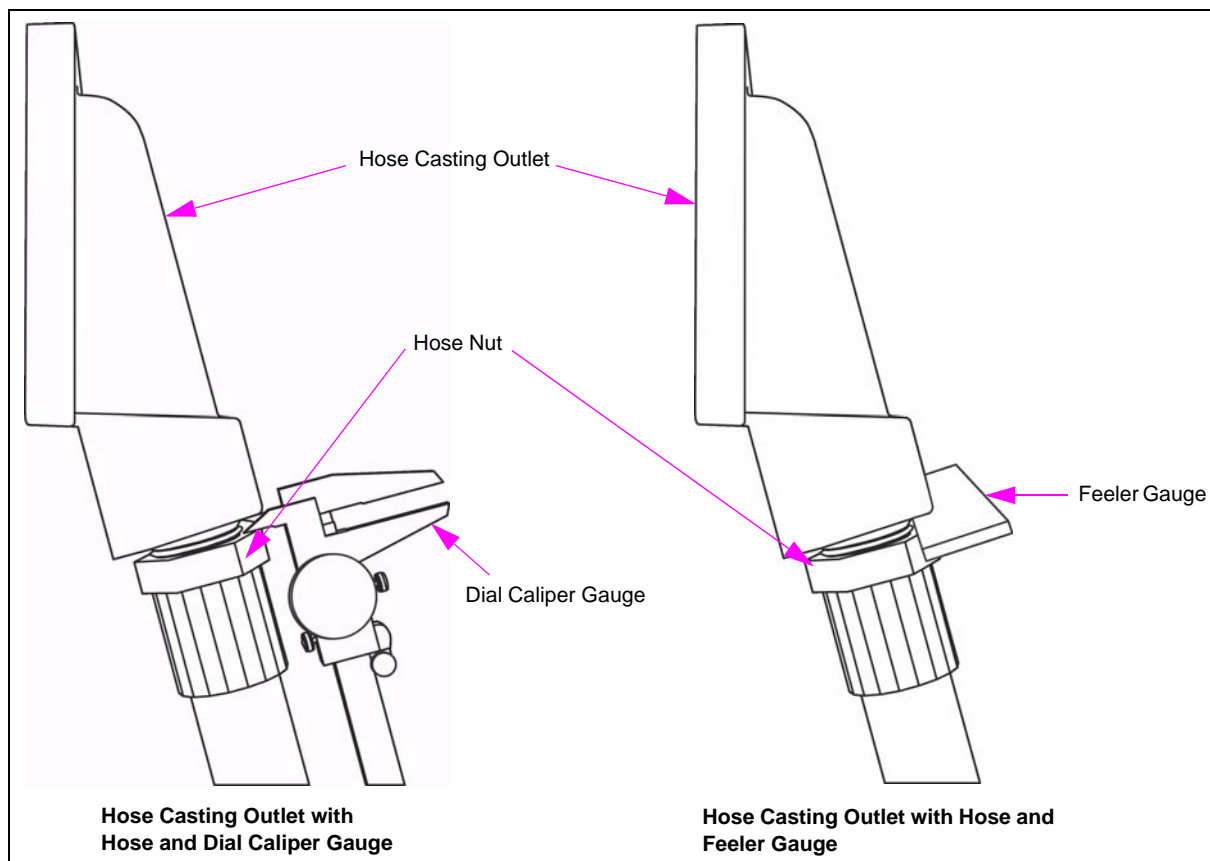
- Before you begin, read and understand all safety information found in MDE-3804 Encore/Eclipse® Start-Up/Service Manual.
-  • Inform the Manager that the power must be removed and remove all power supplied to the unit at the breaker located in the building.
-  • Wear full face eye protection.
-  • Block off the unit from customers.

## Field Installed Units - Inspection Checklist

The inspection checklist for replacing hose casting outlet in field installed units is as follows:

- ☐ Using a ladder, closely inspect the connection between the hose end fitting and hose outlet casting for any leak, dampness, or sign of an earlier leak. Grab the end of the hose near the hose casting and flex it to ensure that no leak exists. If there is any sign of leakage or a leak, then replace the hose castings.
- ☐ For a connection without any leak, if the clearance of the tightened hose fitting nut to the face of the hose outlet casting is less than 1-1/2 threads 0.093-inch for a 3/4-inch hose, then the hose outlet casting must be replaced. Use a Dial Caliper Gauge or a Measure (Feeler) Gauge (M12499) to verify the clearance (see [Figure 1](#)). If you are using a Measure (Feeler) Gauge (M12499), never force the gauge into the clearance area as this could damage the gauge causing bad future inspections as it is not a hardened metal. It must slide with minimal resistance when inserted into the clearance between the hose nut and hose outlet casting. The gap must not be smaller than the thickness of the gauge. After inspection, store the gauge in an appropriate environment such that it will neither damage nor corrode.

**Figure 1: Hose Casting Outlet with Dial Caliper Gauge and Feeler Gauge**



- For a connection with any leak or an earlier leak or a connection that appears to have multiple layers of Teflon® tape installed at the hose outlet casting connection to the hose, ensure that the hose was properly installed before replacing hose outlet casting. Perform the following steps for this kind of situation only:
  - a Close shear valve, authorize the fueling position, bleed pressure from the unit, and test shear valves for complete closure. Before proceeding, the shear valve will require repair, if fluid continues to flow out of the nozzle for more than 5-10 seconds.
  - b Remove hanging hardware. Wear full face eye protection as some residual pressure may exist. Loosen the connection slowly and collect any spillage or hose drainage in an approved container.
  - c Re-install hanging hardware after wiping off old pipe sealant with a clean strong rag. Use UL-approved pipe sealant suitable for the fluid involved. Do not use Teflon tape. Tighten the hose till 1-1/2 thread 0.093-inch approximately exists. Use a Dial Caliper Gauge or Measure (Feeler) Gauge (M12499) to guide you, as required. Do not torque hard on the Measure (Feeler) Gauge (M12499) or it may be rendered inaccurate.
  - d Open shear valve and purge hose to get the air out. Purge 5 gallons per hose.
  - e Check for leaks using the earlier procedure. If any leak exists, then replace the hose casting.
  - f Clean up the area.

## Replacing the Hose Casting Outlet

*Note: Before proceeding, follow all safety precautions listed in “Prerequisites” on page 1.*

### Field Installed Units - Replacement Instructions

To replace host casting outlet in field installed units, proceed as follows:

- 1 Remove the upper piping housing cover. Carefully handle and store the cover to prevent damage.
- 2 Close shear valve, authorize the fueling position, bleed pressure from the unit, and test shear valves for complete closure. Before proceeding, the shear valve will require repair, if fluid continues to flow out of the nozzle for more than 5-10 seconds.
- 3 Remove hose casting and hanging hardware. Wear full face eye protection as some residual pressure may exist. Loosen the connection slowly, and collect any spillage or hose drainage in an approved container.
- 4 Replace hose casting using a new O-Ring. Use a light coating of Silicone grease to aid in holding the seal to the casting.
- 5 Re-install hanging hardware after wiping off old pipe sealant with a clean strong rag. Use UL-approved pipe sealant suitable for the fluid involved. Do not use Teflon tape.
- 6 Hand tighten the hose and then further tighten 2-1/2 to 3 turns.

- 7 Open shear valve and purge hose to get the air out. Purge 5 gallons per hose.
- 8 Check for leaks. Re-install the cover if there is no leak.
- 9 Clean up the area.

The replacement of host casting outlet in field installed units is now complete.

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Phone (336) 547-5000 · <http://www.gilbarco.com> · Printed in the U.S.A.  
MDE-5014A Hose Casting Outlet Replacement Instructions for Encore® Units Previously Installed · February 2012