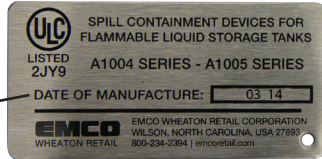
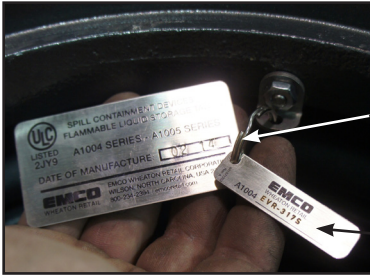




# 494550EVR, 494660EVR 495494EVR, 495874EVR Replacement Kits

## INSTALLATION INSTRUCTIONS

### Permanent Identification:



Month/Year of Manufacture



Model #

<b>Model Number</b>	<b>Description</b>
494550EVR	Primary & Secondary Replacement Kit for A1004EVR-215S
494660EVR	Primary & Secondary Replacement Kit for A1004EVR-216SJ
495494EVR	Primary Replacement Kit for A1004EVR-215S
495874EVR	Primary Replacement Kit for A1004EVR-216SJ

### Service Tools Required:

- Needle Nose Pliers
- 9/16" Socket
- EMCO Adapter Wrench A0081-001
- 5/32" Allen Wrench
- 1/2" Drive 12" Extension
- EMCO Primary Wrench A0081-001H
- Lubricant
- Torque Wrench w/ 50 ft-lbs. setting
- Flathead Screw Driver
- 1/2" Drive 5" Extension
- 5/16" Allen Wrench
- EMCO Riser Seal Wrench A0081-001L
- Torque Wrench w/ 200 ft-lbs. setting
- Chain Wrench
- Non-hardening Gasoline Resistant Pipe Thread Sealant Compound
- Standard 1/2" Drive Ratchet
- Tube of Urethane Sealant

**Note:** Jacks are provided for adjustment of spill container height. Adjustment can be made by turning the top bolt clockwise to raise and counter-clockwise to lower. Total adjustment is approximately +/- 15/8".

### CAUTION:

1. Always barricade to keep pedestrians and vehicles from accessing the storage tank area during preventive maintenance and/or compliance testing of the EMCO Phase I EVR system.

## Primary Unit Removal



Step 1: Remove the A1004EVR spill containment lid.



Step 2: Remove the adapter cap. Remove the ID tag(s) and set aside.



Step 3: Use a 5/32" allen wrench to loosen both set screws from the base of the swivel adapter.

**Note: Steps 5, 6 and 7 are for fill applications only.**



Step 4: Use the EMCO Adapter Wrench p/n A0081-001 to loosen and remove the swivel adapter.



Step 5: Use the EMCO Riser Seal Wrench p/n A0081-001L to loosen and remove the center insert located inside the 494096 riser seal.



**Step 6:** Use the EMCO Adapter Wrench p/n A0081-001 to loosen and remove the 494096 riser seal.



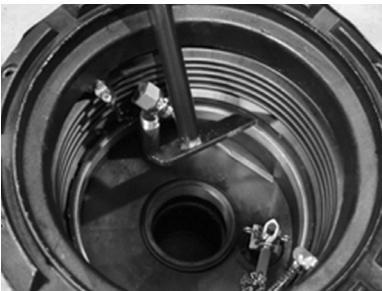
**Step 7:** Remove the drop tube from the fill riser by pulling upward.



**Step 8:** Use a ratchet with a 9/16" socket to remove and discard all eight 3/8" stainless steel bolts located along the top of the rim of the A1004EVR spill containment.



**Step 9:** Use the Emco A0081-003 Pipe Nipple Extractor or a chain wrench to loosen and remove the nipple.

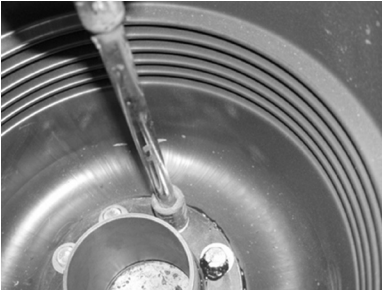


**Step 10:** Use the EMCO Spill Containment Wrench p/n A0081-001H to loosen and remove the primary unit from the secondary.



**Step 11:** Remove the primary unit from inside the A1004EVR spill containment by pulling upwards. Once the primary unit is completely out, please discard.

## Secondary Unit Removal



**Step 1:** Use a ratchet with a 5/16" allen wrench socket to remove the bolts and washers from the bottom of the secondary unit. Use a flat-head screwdriver to pry the flange away. Set the flange aside and discard the bolts and washers. Remove secondary unit from the inside of the A1004EVR spill containment and discard.



**Step 2:** Remove the existing two o-rings from the adapter flange and discard. Be sure to clean both o-ring grooves before proceeding with the installation of the new secondary unit.

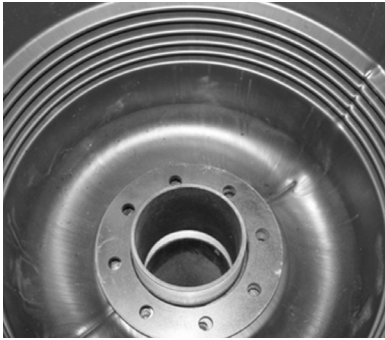
## Secondary Unit Installation



**Step 1:** Apply a thin bead of urethane sealant to each of the two o-ring grooves, then install the two new o-rings.



**Step 2:** Install the new secondary unit inside the A1004EVR spill containment.

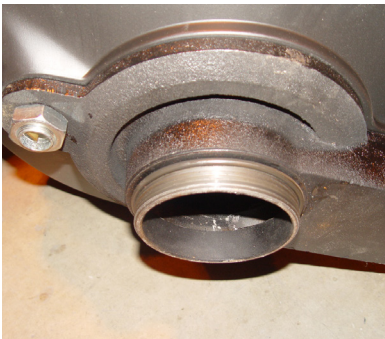


Step 3: Re-install the existing flange. Be sure to align the bolt holes.

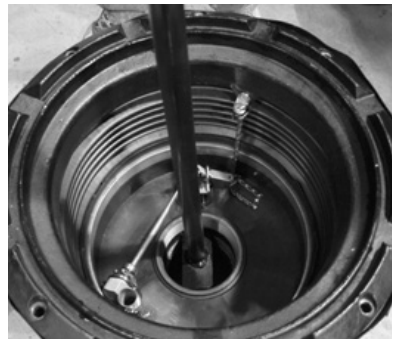


Step 4: Install the new bolts and washers to the bottom of the new secondary unit. Use a ratchet with a 5/16" allen wrench socket to tighten and torque to 40 ft-lbs.

## Primary Unit Installation



Step 1: Lubricate the sealing o-ring with a small amount of grease.



**Note:** The primary rim gasket is glued to the rim.

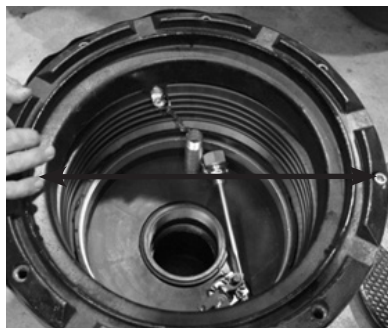
Step 2: Manually tighten the new primary unit onto the riser pipe to avoid cross threading. Use the EMCO Spill Containment Wrench p/n A0081-001H to tighten and torque between 100 and 150 ft-lbs.

**IMPORTANT:** As the primary unit is being torqued verify the A1004EVR spill containment bolt holes line up with the rim bolt holes.



Step 3: All eight bolt holes must be clean and free of all debris before attempting to install the new primary unit.

**IMPORTANT:** Failure to do so may result in possible cross threading and permanent damage voiding warranty.



Step 4: Manually install eight new 3/8" stainless steel bolts. Use a torque wrench with a 9/16" socket to tighten and torque to 25 ft-lbs.

**IMPORTANT:** Tighten each bolt lightly in a cross pattern before applying final torque.

Re-install the dipstick and drain valve filter.

Re-install the ID tag(s).

### **Spill Containment with Overfill Prevention Valve or Straight Drop Tube, Riser Seal, Swivel Fill Adapter and Fill Adapter Cap**

1. When installing the A1004EVR spill containment with an Emco Wheaton overfill prevention valve, please refer to the A1100EVR installation instructions.
2. When installing the A1004EVR spill containment with an Emco Wheaton straight drop tube, please refer to the A0020EVR and A0020EVR C installation instructions.

**IMPORTANT:** The fill riser installation will only allow for one type of EVR drop tube configuration.

3. When installing the A1004EVR spill containment with an Emco Wheaton riser seal, please refer to the 494096 installation instructions.
4. When installing the A1004EVR spill containment with an Emco Wheaton swivel fill adapter, please refer to the A0030-124S installation instructions.
5. When installing the A1004EVR spill containment with an Emco Wheaton fill adapter cap, please refer to the A0097-005 installation instructions.

## **Spill Containment with Swivel Vapor Adapter and Vapor Adapter Cap**

1. When installing the A1004EVR spill containment with an Emco Wheaton swivel vapor adapter, please refer to the A0076-124S installation instructions.
2. When installing the A1004EVR spill containment with an Emco Wheaton vapor adapter cap, please refer to the A0099-002, -003 installation instructions.

### **Clean-up and Finish**

1. Clean and remove all debris from the inside of the A1004EVR spill containment, drain valve and filter assembly.
2. Paint the new A1004EVR spill containment rim to match the color of the lid.
3. Once the paint on the rim has dried, re-install the A1004EVR spill containment lid.

## **PREVENTIVE MAINTENANCE**

1. Quarterly verify that the inside of the A1004EVR spill containment is free of all dirt, gravel, debris, etc. Should cleaning be required, wipe the inside wall and bottom of the A1004EVR spill containment using soapy water and a disposable towel.
2. After each delivery, the station operator must remove any standing fuel from the inside of the A1004EVR spill containment. If gasoline does not drain, refer to the #494118 drain valve preventive maintenance instructions.

**IMPORTANT: During routine preventive maintenance all damaged components must be replaced with factory authorized service kits.**

### **Service Repair Kits**

<b><u>Part Number</u></b>	<b><u>Description</u></b>
• 494118	Drain Valve Kit
• 494554	Lid and Seal
• 494550EVR	-215S Primary & Secondary Replacement Kit
• 494660EVR	-216S Primary & Secondary Replacement Kit
• 495494EVR	-215S Primary Replacement Kit
• 495874EVR	-216SJ Primary Replacement Kit

## PERFORMANCE SPECIFICATIONS

This component was factory tested to, and met, the following specifications.

1. TP-201.1D - Complies with the allowable maximum leakrate of 0.17 CFH @ 2.00 inches of water.

**IMPORTANT: Leave these installation instructions, product warranty registration card and the warranty tag with the station owner and/or operator.**

### **IMPORTANT: Tank Operator Responsibilities**

- Tank operator must ensure that all Federal, Provincial and local codes are being met during the filling of the tank.
- All operators must be familiar with proper filling procedures.
- The operator responsible for transferring product to an above ground storage tank must take all reasonable steps to prevent spillage.
- The delivery hose from the tank's fill pipe must not be disconnected before the hose has been drained completely.
- When tank vehicles are being unloaded, the vehicle operators must remain:
  - (a) in constant view of the transfer nozzle and fill pipe; and
  - (b) in constant attendance at the discharge control valve.

### **Emco Wheaton Retail Corp.**

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