POMECO 700L Series
Product Service and Maintenance Guide

IMPORTANT: Please read these warnings and use the instructions completely and carefully before starting. Failure to do so may cause product failure, or result in environmental contamination due to liquid leakage into the soil, creating hazardous spill conditions.

WARNING-DANGER: Using electrically operated equipment near gasoline or gasoline vapors may result in a fire or explosion, causing personal injury and property damage. Be sure that the working area is free from such hazards, and always use proper precautions.
NOTE: At all times when product is in the storage tank keep the riser pipe capped, so the vapors cannot escape into the environment.

NOTICE: OPW products must be used in compliance with applicable federal, state, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specification are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation.

NOTE: In California it is prohibited to use spill container drain valves on spill containers that are exclusively used for vapor return risers.

WARNING: The primary containment bucket consists of three components cast iron ring, bellows, and bucket bottom. These parts are held together with stainless steel retaining bands. DO NOT adjust the stainless steel retaining bands securing the bellows to the containment bucket top ring or the containment bucket bottom. Adjusting the retaining bands voids any and all warranties on this product.

WARNING: If the cover is removed, for any reason, follow the Operation and Maintenance instruction as noted. Always inspect and replace damaged o-rings and seals and install new ones. Never reuse damaged o-rings or seals as it may result in an improper seal. Only qualified, competent, well-trained technicians should perform maintenance. Common sense and good judgment should always be exercised. The contractor's understanding of all related site conditions prior to starting the project is essential. If the contractor does not have a clear understanding of the required work and site conditions, the contractor is advised to seek clarification prior to starting any portion of the project.

NOTICE TO DELIVERY DRIVER: All delivery drivers MUST inspect the inside of the container for water or contaminants other then fuel prior to delivery. If water or contaminates are present, then they MUST be removed by the use of absorbent towels before proceeding. Dispose of towels and debris safely and per all applicable local, state, and federal codes. After delivery is complete, the driver MUST drain any excess fuel that may have spilled into the container from their delivery hose by pulling on the drain valve until the fluid is completely gone.

Tools Required:
Ratchet
9/16" Hex Socket
1-1/2" Six Point Hex Socket, ½" drive min.
Breaker Bar
½" Hex, 6 Point Ratcheting box wrench
Torque wrench (in-lbs)
Wire brush
Caulk gun
Acetone
Anti-seize
3/18-16 x 1" min length set screws and 3/16" allen wrench
(or 5/16" to ¼" diameter x 1-1/2" min length pins)

Torque Specifications:
Spill Container 4" NPT, 125 ft-lbs minimum to 250 ft-lbs maximum.

4" Nipple, 4" NPT, 125 ft-lbs minimum to 250 ft-lbs maximum.
Note: All 4" NPT threads are to be torqued progressively lower from the tank up.

Drain Valve Clamps, 5/16-18 UN thread, 11.5 ft-lbs minimum to 13.5 ft-lbs maximum.

Snowplow Ring Nuts, 5/16-18 UN thread, 15 ft-lbs minimum to 20 ft-lbs maximum.

Main Cover Bolts, 3/8-16 UN thread, 20 ft-lbs minimum to 25 ft-lbs maximum.

Band Clamps, 30 in-lbs.

Figure 1 – 700L Parts Diagram

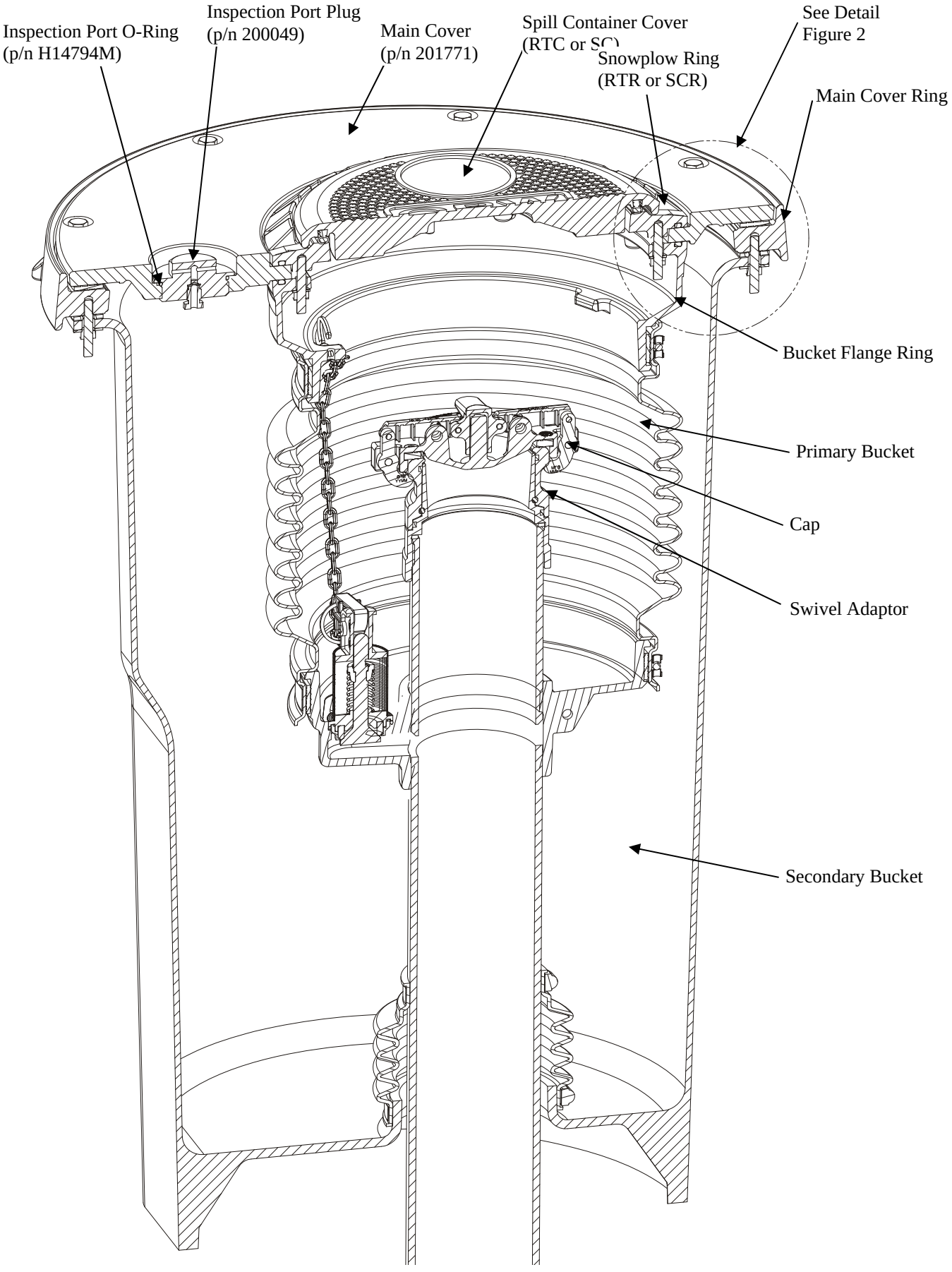
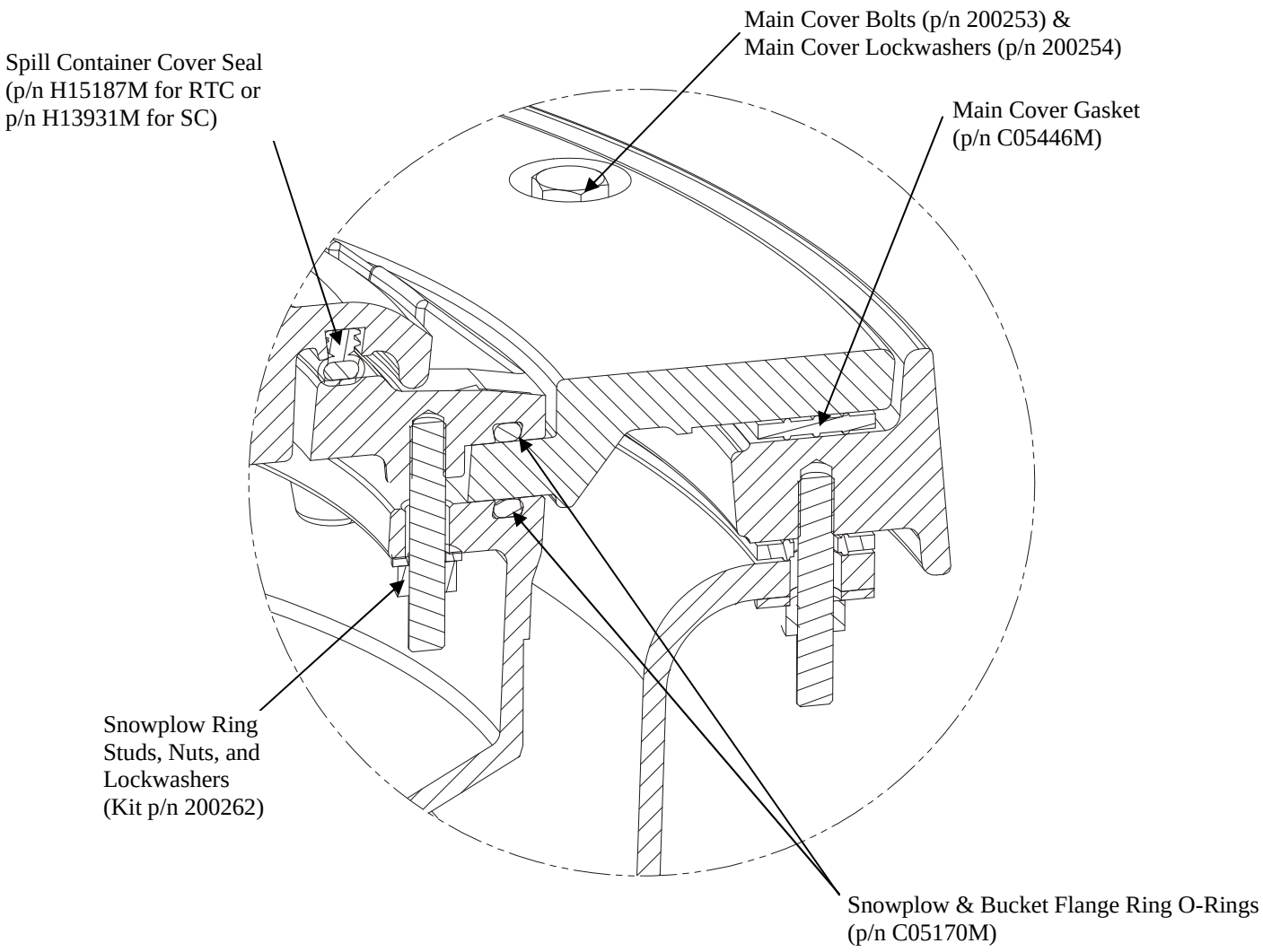


Figure 2 - 700L Detail View, Parts Diagram



Servicing Existing POMECO 700L Series Secondary Contained Spill Buckets Instructions

1. Block off and protect work area from traffic.
2. Remove inspection port plug from main cover. When removing the inspection port plug a 1-1/2" Six point hex socket with a ½" minimum drive should be used with a breaker bar.
3. Remove spill container cover.
4. Remove the four snowplow ring nuts from the underside of the bucket flange ring from inside the primary bucket. The use of a ½" hex six point ratcheting box end wrench is recommended.
5. Remove all main cover bolts and lockwashers from the main cover.
6. Remove the main cover.
7. Remove any accumulation of liquid from the secondary bucket and thoroughly clean.
    - **<u>NOTE</u>: Follow customer's prescribed hazardous waste disposal procedures.**

8. Inspect the primary and secondary bucket for any damage. Contact OPW Technical Support before proceeding for replacement part numbers if any damage is found.
9. With the old o-rings in place thoroughly clean the bottom of the snowplow ring, top of the bucket flange ring, and inspection port plug with a wire brush to remove all dirt and foreign materials. If unable to remove all grit from inspection port plug it may be necessary to replace the 200049 inspection port plug.
10. Remove old o-rings mentioned in step 9 and ensure o-ring grooves are clean and free of foreign materials. Clean o-ring grooves with acetone and allow to dry.
11. Install new C05170M o-rings in snowplow ring and bucket flange ring. Install these o-rings by first locking the o-ring in the groove in four spots 90º apart and then pressing in the rest of the o-ring.
12. Install new H14794M inspection port o-ring on the inspection port plug.
13. Remove main cover gasket from main cover ring.
14. Clean main cover ring, bottom of main cover in the gasket seating area, and female threads and o-ring seat on main cover inspection port area to remove any foreign materials.
15. Remove all grit from main cover ring bolt holes. If main cover ring bolt holes have been damaged contact OPW Tech Support before proceeding.
16. Clean main cover ring and bottom of main cover in the gasket seating area with acetone and allow to dry.
17. Install 3/8-16 x 1" min length set screws or 5/16" to ¼" Dia x 1-1/2" min length pins into all main cover ring bolt holes to aid in alignment of the main cover gasket.
18. Apply a ¼" minimum bead of SL-1100, Bostik 1100, or equivalent sealant to the main cover ring in the area that the main cover gasket will sit.
19. Install new C05446M main cover gasket onto main cover ring aligning the holes in the seal with the set screws or pins used in Step 16. Firmly set gasket into sealant.
20. Place main cover into position. Align all bolt holes and make sure large opening in main cover lines up with the primary bucket.
    - **<u>NOTE</u>: Use caution to avoid moving or damaging new main cover gasket.**
21. Remove one set screw or pin at a time and replace with a new 200253 main cover bolt and 200254 main cover lockwasher installed finger tight. Repeat for all main cover bolts.
22. Tighten main cover bolts in a crossing pattern and then torque bolts evenly in a crossing pattern to 20 to 25 ft-lbs.
23. Ensure the four snowplow ring studs in the bottom of the snowplow ring are installed tight.
24. Align the four snowplow ring studs with the four holes in the bucket flange ring and place the snowplow ring into place.
25. Install snowplow ring lockwashers and nuts onto the snowplow ring studs. Tighten snowplow ring nuts in a crossing pattern (1/2" hex 6 point ratcheting box end wrench is recommended). Torque nuts evenly in a crossing pattern to 15 to 20 ft-lbs.
26. Inspect OPW 61SA swivel adaptor or 61VSA swivel adaptor and ensure it is installed to the proper torque.
27. Inspect OPW 634 fill cap or 1711 vapor cap. Replace gasket if not tight.
28. If required test spill container.

- Vacuum test. Two test companies are currently certified by OPW to conduct vacuum testing. The test on the secondary space pulls a vacuum of approximately 26" WC and must maintain a minimum of 24" WC after 1 minute. The test conducted on the primary bucket is at 30" WC for 1 minute and must maintain at least 26" WC. Any testing that shows a vacuum leak must then be hydrostatically tested to confirm a leak is present.
- Hydrostatic test, to test the primary bucket, fill the bucket with water and mark the water level. After one hour the water level should not drop over 1/16". If the level drop is greater then 1/16" look for leaks into the secondary container. To test the secondary bucket, fill the secondary bucket with water through the inspection hole and mark the level. If the level drop is greater than 1/16" after one hour look for leaks into the primary bucket or to the outside of the secondary bucket at the upper gasket or lower entry fitting.
- **NOTE:** IN ALL PRESSURE AND VACUUM TESTING LEVELS MUST NOT EXCEED 30" WC.
- **NOTE:** The threads on the main cover are inspection port plug are 2" NPSM straight threads and require an o-ring on the test adaptor in order to seal properly.

29. Ensure the 200049 inspection port plug is free of grit and debris as instructed in step 9.
30. Apply anti-seize to inspection port plug and install back into cover.
31. Inspect spill container cover seal and replace if needed (p/n H15187M for RTC or p/n H13931M for SC).
32. Install spill container cover.
33. If needed, touch up paint damaged in cleaning process.

Warning:
When cover is removed for any reason, follow cleaning and installation instructions as noted above. Always remove existing gaskets and install new gaskets.

OPW does recommend periodic inspection of covers and seals as a part of the regularly scheduled maintenance program. Inspection should be performed whenever prudent periodic inspection of other components in the fill and vapor recovery sumps is conducted.

Regularly scheduled inspection and maintenance programs should be a part of any service station or fueling facility operation. Only qualified, competent, well-trained technicians should perform maintenance.

Note: Common sense and good judgment should always be exercised. The contractor's understanding of all related site conditions prior to starting the project is essential. If the contractor does not have a clear understanding of the required work and site conditions, the contractor is advised to seek clarification prior to starting any portion of the project.

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