



OPW Installation and Maintenance Instructions

OPW 1-3101 Series Single Wall Bucket Replacement Instructions

IMPORTANT: Please read these warnings and follow the assembly 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.

IMPORTANT: The OPW 1-3100 Spill Container is pre-assembled for your convenience and ease of installation. Check to make sure the unit is intact and undamaged and all parts have been supplied. Never substitute parts for those supplied. Doing so may cause product failure.

WARNING-DANGER: Using electrically operated equipment near gasoline or gasoline vapors may result in a fire or explosion, causing personal injury and property damage or death. 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.

Standard Product Warranty

OPW warrants that products sold by it are free from defects in materials and workmanship for a period of one year from the date of manufacture by OPW (ECO products two years from date of manufacture.) Proof of purchase may be required. As the exclusive remedy under this limited warranty, OPW, will at its sole discretion, repair, replace, or issue credit for future orders for any product that may prove defective within the one year date of manufacture period (repairs, replacements, or credits may be subject to prorated warranty for remainder of the original warranty period, complete proper warranty claim documentation required.) This warranty shall not apply to any product that has been altered in any way, which has been repaired by any party other than a service representative authorized by OPW, or when failure is due to misuse, or improper installation or maintenance. OPW shall have no liability whatsoever for special, incidental or consequential damages to any party, and shall have no liability for the cost of labor, freight, excavation, clean up, downtime, removal, reinstallation, loss of profit, or any other cost or charges.

For any product certified to California 2001 standards, OPW warrants that product sold by it are free from defects in material and workmanship for a period of one year from date of manufacture or one year from date of registration of installation not to exceed 15 months from date of manufacture by OPW.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND

SPECIFICALLY THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

In some states it is prohibited to use spill container drain valves on spill containers that are exclusively used for vapor return risers. Install only 1-3100 Series Thread-On spill container models equipped with a drain plug.

WARNING: If the snowplow ring is removed, for any reason, follow the Operation and Maintenance instruction as noted. Replace 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 than fuel prior to delivery. If water or contaminants are present, then they MUST be removed 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.

Replacement Parts Needed:

Seal	201689	Qty. 1
Set Screws	203171	Qty. 8
Replacement Bucket	203193 Drain Valve Bucket	
Or	203194 Plug Bucket	

Torque Specifications:

Ring Bolts: 3/8-16 UN, 20 ft-lbs minimum to 25 ft-lbs maximum.

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.

Tools Recommended:

61SA-TOOL – Torque Installation Tool
9/16" hex socket
Torque wrench

1-3101 SERIES SINGLE WALL BUCKET REPLACEMENT INSTRUCTIONS

NOTE: These instructions only apply when a bucket requires removal. Standard installation does not require disassembly of bucket.

Step 1:

Remove jack screw kit and drop tube or overfill prevention valve from spill container.

Step 2:

Disconnect drain valve split ring from tab on snowplow ring. Remove eight bolts (9/16 hex) from snowplow ring. Remove snowplow ring and discard seal. Set ring, lock washers, and bolts aside. Note: Seal must be replaced before installing new bucket.

Step 3: (See Figure 1)

Remove bucket using 61SA-TOOL as shown in tool instruction sheet 202394 and Figure 1.

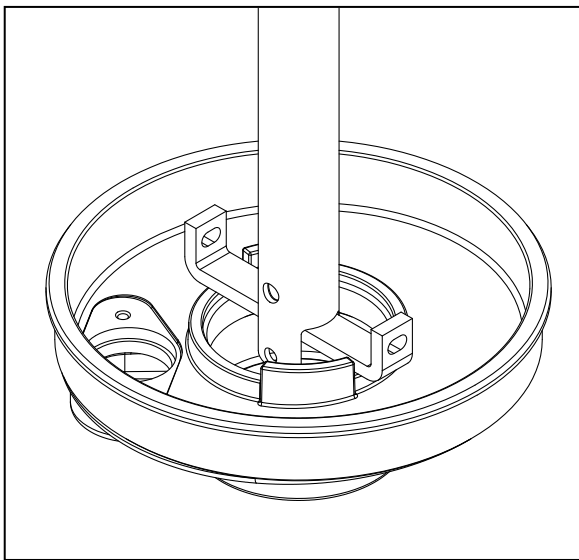


Figure 1

Step 4: (See Figure 2)

Ensure spacer is installed with ribs down.

Note: New seal must be used. No sealant required.

Step 5: (See Figure 2)

To prevent rotation of the spacer, install eight 3/8-16 UNC set screws into the mounting ring. Thread the set screws in to just below the top of the spacer.

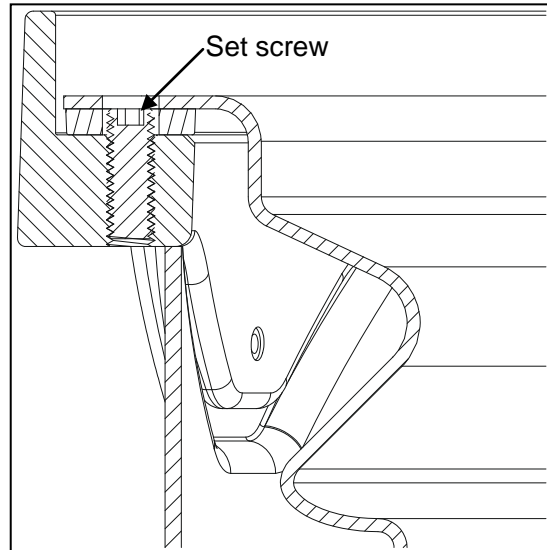


Figure 2

Step 6:

Thoroughly clean riser pipe or FSA-400-S Face Seal Adaptor. Apply pipe dope to riser pipe or FSA-400-S Face Seal Adaptor. Pipe dope to be a non-hardening gasoline resistant pipe thread seal compound.

Step 7:

Install bucket using 61SA-TOOL onto riser pipe or FSA-400-S. Torque to 125 ft-lbs min. to 250 ft-lbs max (4" NPT). Align bolt holes in bucket with holes in spacer and mounting ring.

Step 8:

Raise the set screws so that they are above the top of the bellows.

Step 9:

Place new seal and snowplow ring back into place. Remove one set screw at a time and replace with bolt and lock washer. Torque bolts in crossing pattern to 20 to 25 ft-lbs.

Step 10:

Attach drain valve split ring to tab on snowplow ring.

Step 11:

Install jack screw kit and drop tube or overfill prevention valve into spill container per applicable instructions.



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9393 Princeton-Glendale Rd * Hamilton, Ohio 45011

1-800-422-2525 Domestically

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OPW 61SA-TOOL Instructions

IMPORTANT: Please read these warnings and use the assembly 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.

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NOTE: At all times when product is in the storage tank keep the riser pipe capped, so the vapors cannot escape into the environment.

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Standard Product Warranty

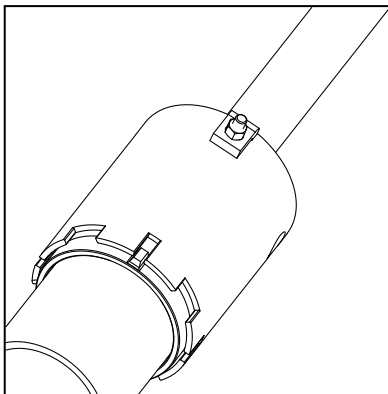
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defects in materials and workmanship for a period of one year from the date of manufacture by OPW (ECO products two years from date of manufacture.) Proof of purchase may be required. As the exclusive remedy under this limited warranty, OPW, will at its sole discretion, repair, replace, or issue credit for future orders for any product that may prove defective within the one year date of manufacture period (repairs, replacements, or credits may be subject to prorated warranty for remainder of the original warranty period, complete proper warranty claim documentation required.) This warranty shall not apply to any product that has been altered in any way, which has been repaired by any party other than a service representative authorized by OPW, or when failure is due to misuse, or improper installation or maintenance. OPW shall have no liability whatsoever for special, incidental or consequential damages to any party, and shall have no liability for the cost of labor, freight, excavation, clean up, downtime, removal, reinstallation, loss of profit, or any other cost or charges.

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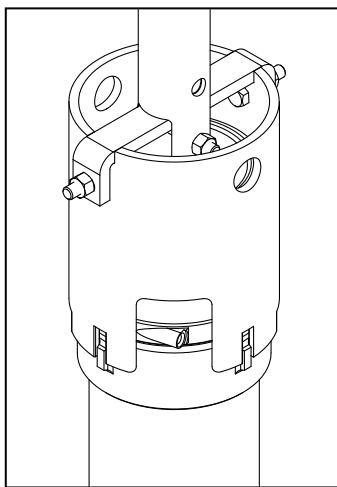
THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

OPERATION INSTRUCTIONS:



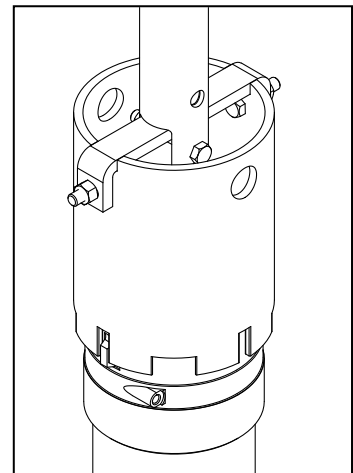
61SALP

For 61SALPs, align the two ears with the small slots in the 61SA-TOOL.



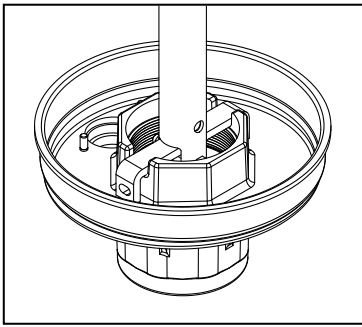
61SA

For 61SAs, make sure that the large window on the tool is aligned with the retaining rod hole.



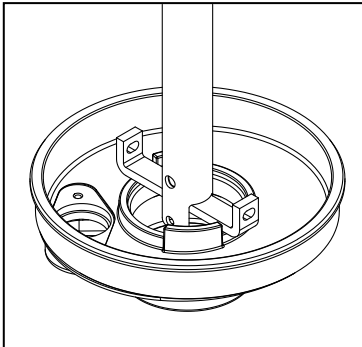
61VSA

For 61VSAs, align the two ears with the small slots in the 61SA-TOOL.



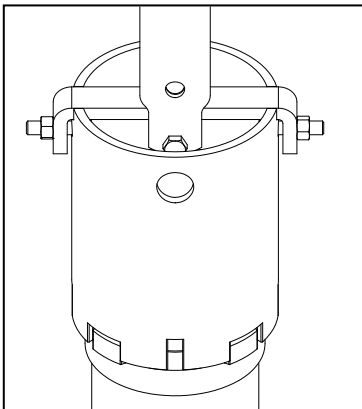
Composite Base

For Composite Bases, remove the two bolts from the cross bar to remove the swivel pipe.



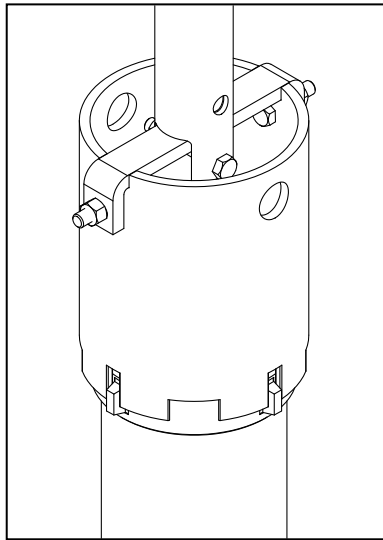
Cast Iron Base

For Cast Iron Bases, remove the two bolts from the cross bar to remove the swivel pipe. Then turn over the cross bar by removing bolt from the bottom of the post.



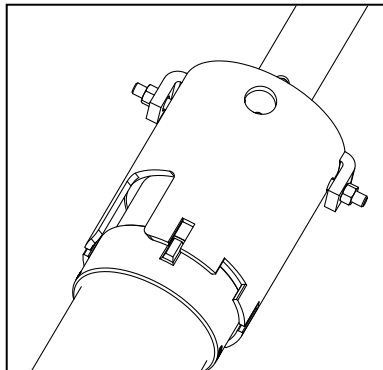
Philtite Adaptor

For Philtite Adaptors, align the four ears with the wide windows on the 61SA-TOOL.



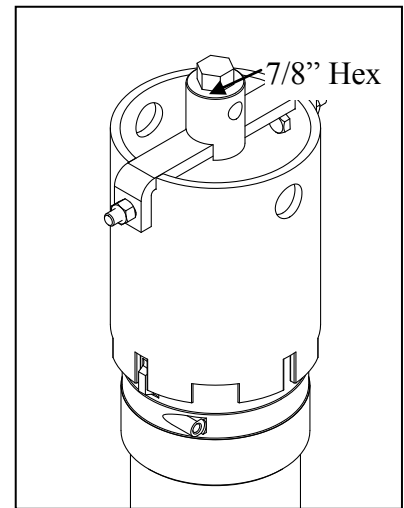
TC-400

For TC-400s, align the four ears with the small slots on the 61SA-TOOL.



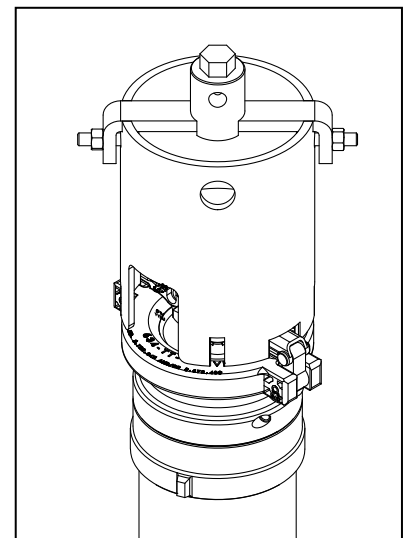
FSA-400/FSA-400-S

For FSA, align the two ears with the small slots in the 61SA-TOOL.



Torque Tool

To use the 61SA-TOOL to check torque, remove the post from the swivel pipe and cross bar by removing the bolt in the post. This exposes the 7/8" hex head on the guide attached to the cross bar.



Swivel Adaptor Rotation Torque Test

For testing the rotation torque on swivel adaptors, remove the post and handle and align the two wide windows with the latch of the lid.



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P.O. Box 405003, Cincinnati, Ohio 45240-5003
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