INSTALLATION

DDU38CL DIRECT DRIVE UNLOADER

for installation onto CL Series Dishwashers

R-L OPERATION	L-R OPERATION
ML-138700	ML-138701

with Blower Dryer

ML-138702

with 10" Spot Free Rinse

01-605355 Kit

HOBART

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FORM 46009 (June 2024)

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INSTALLATION INSTRUCTIONS

DDU38CL DIRECT-DRIVE UNLOADER

GENERAL

The DDU38CL Unloader is typically connected to the unload end of a CL dishwasher. It moves the 20" x 20" rack in a 90-degree arc onto a dish table. The Unloader uses direct linkage with the dishwasher cradle to oscillate the rack-moving mechanism.

The DDU38CL can also be attached to the unload end of CL dishwasher with a Blower Dryer or a Spot Free rinse section.

INSTALLING DDU38CL UNLOADER TO DISHWASHER MODELS CL44/54/64/66/76/86

UNPACKING

Immediately after unpacking, check for possible shipping damage. If the Unloader is found to be damaged, save the packaging material and contact the carrier within 5 days of delivery.

LOCATION

Place Dishwasher and Unloader as close to their final positions as possible. Make sure you leave room to drill mounting holes in end of dishwasher. Review all tags and labels but do not remove any until installation is complete. Remove any packaging, tape, wire, and bracing.

PREPARE DDU38CL FOR INSTALLATION

Leg Assembly (To be done with the DDU38 upside down)

1. Insert the leg “H” frame into the two rear leg sockets.
2. Insert the single leg into the front leg socket.
3. Using the set screws provided, secure the legs in the sockets.
4. Fill set screws with an NSF approved silicone sealant.
5. Mount the leg spreader plate between the leg “H” frame and the single leg with the 5/16” hardware.

Make sure adjoining parts of Dishwasher and Unloader are exactly in line with each other. Turn leveling feet (on bottom of legs) in or out to adjust height and level machine. Also, refer to Track Guide Leveling.

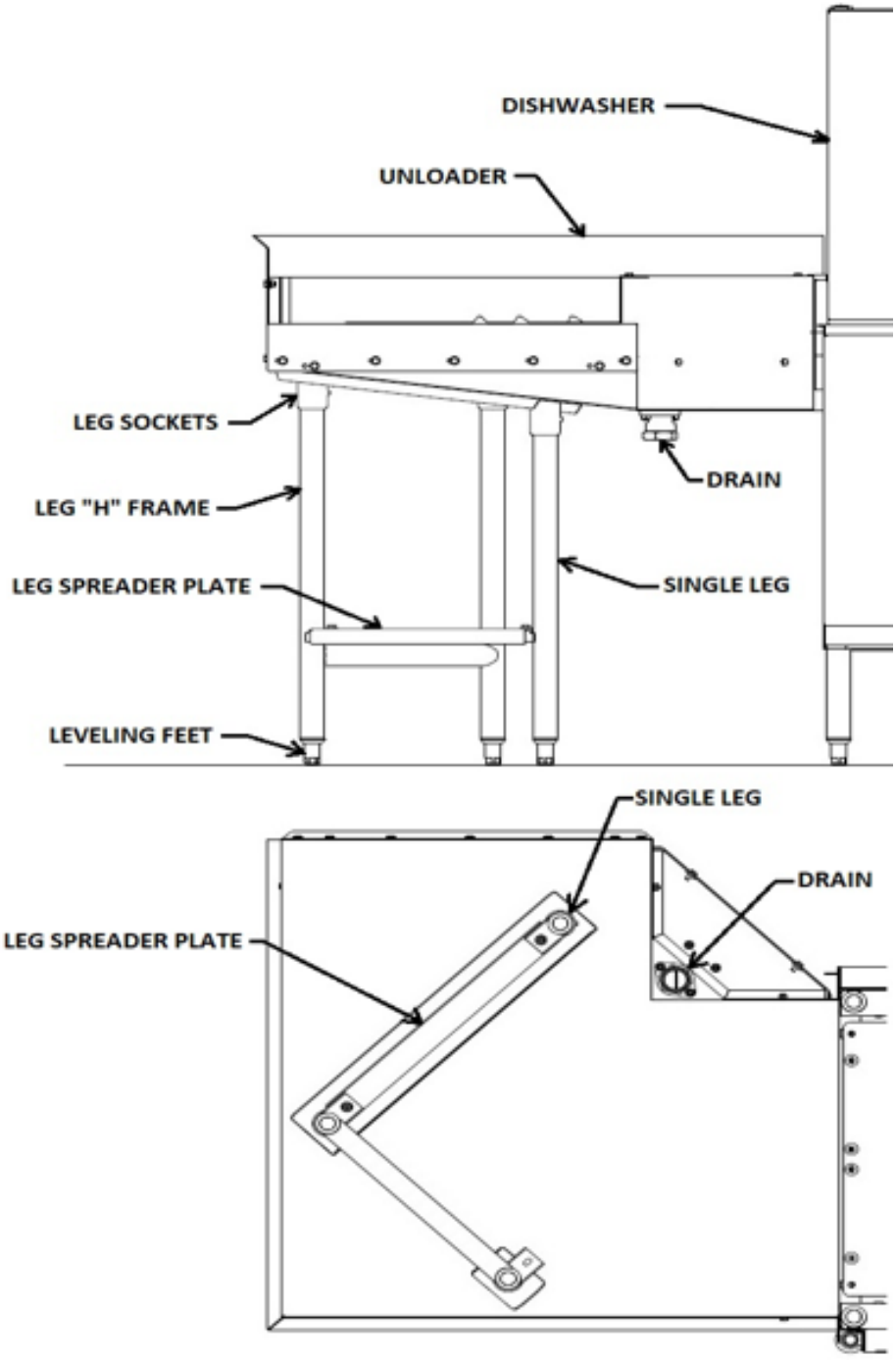

DISHWASHER
UNLOADER
LEG SOCKETS
DRAIN
LEG "H" FRAME
LEG SPREADER PLATE
SINGLE LEG
LEVELING FEET
SINGLE LEG
DRAIN
LEG SPREADER PLATE

Fig. 1

Drill Holes

Using the appropriate template provided (Fig. 2 or Fig 3), locate and drill the five 5/16” dia. and one 1” dia. holes in the unload end of the dishwasher. Remove burrs and shavings from inside machine.

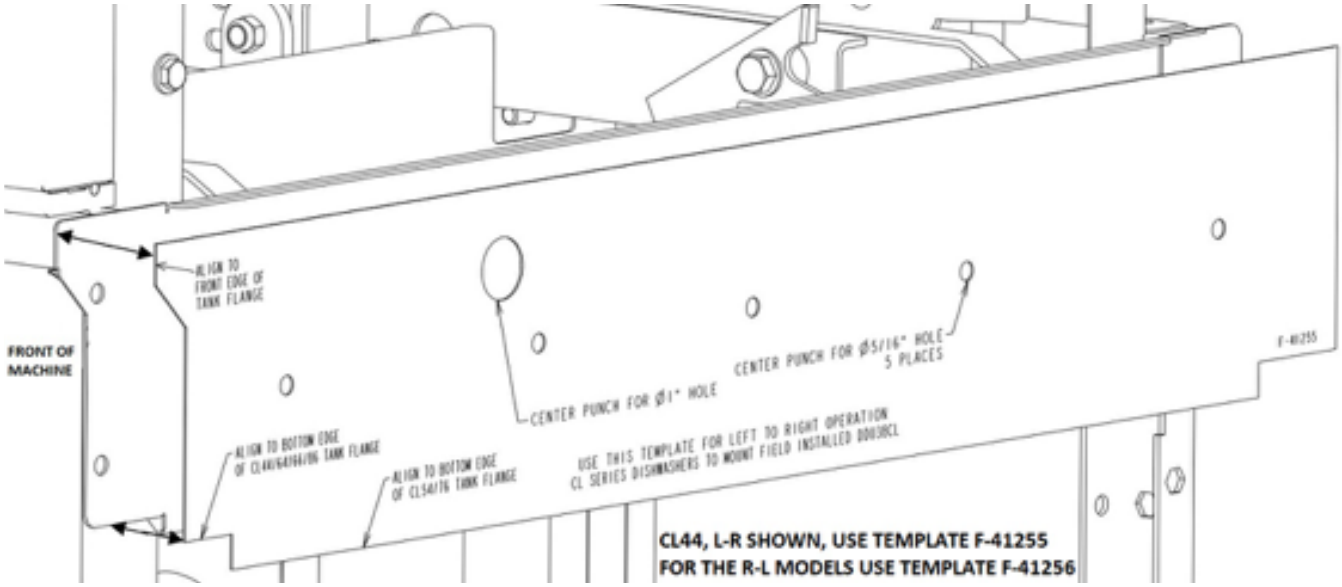


Fig. 2 FOR CL44/64/66/86 MODELS

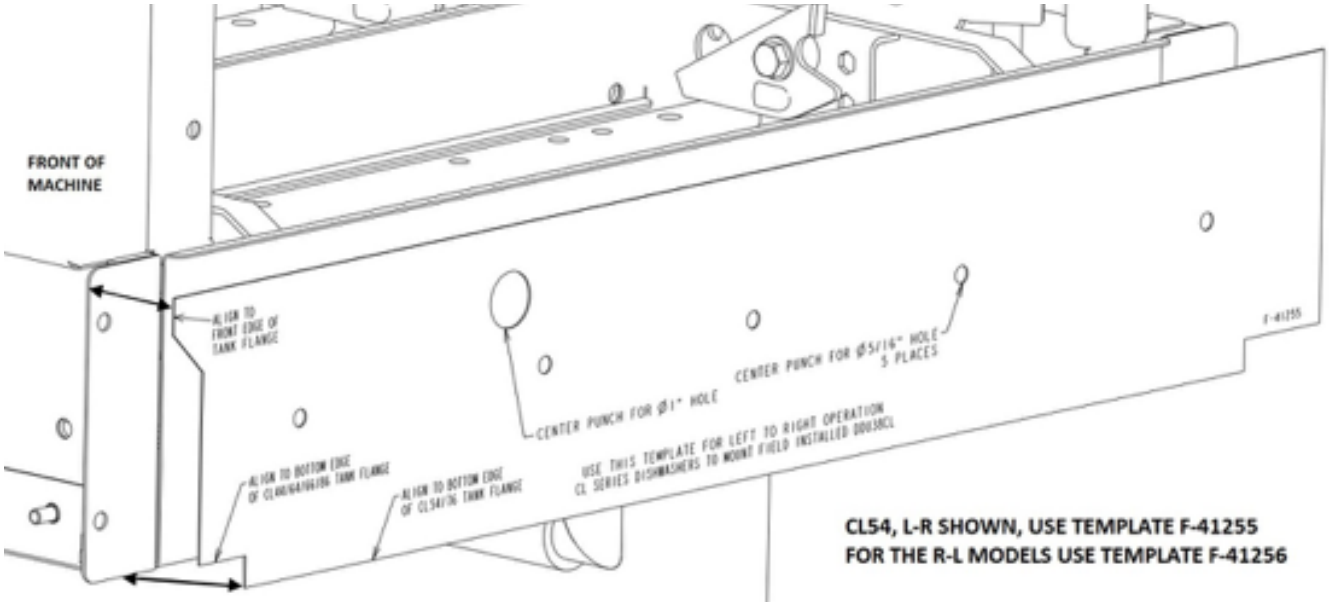


Fig. 3 FOR CL54/76 MODELS

Apply Foam Tape

Apply 1-1/2" foam tape (supplied) to surface of DDU38CL where Unloader and Dishwasher tank meet (Fig. 4). Use a Phillips screwdriver to punch through the foam tape where it covers the seven holes in the end of the DDU.

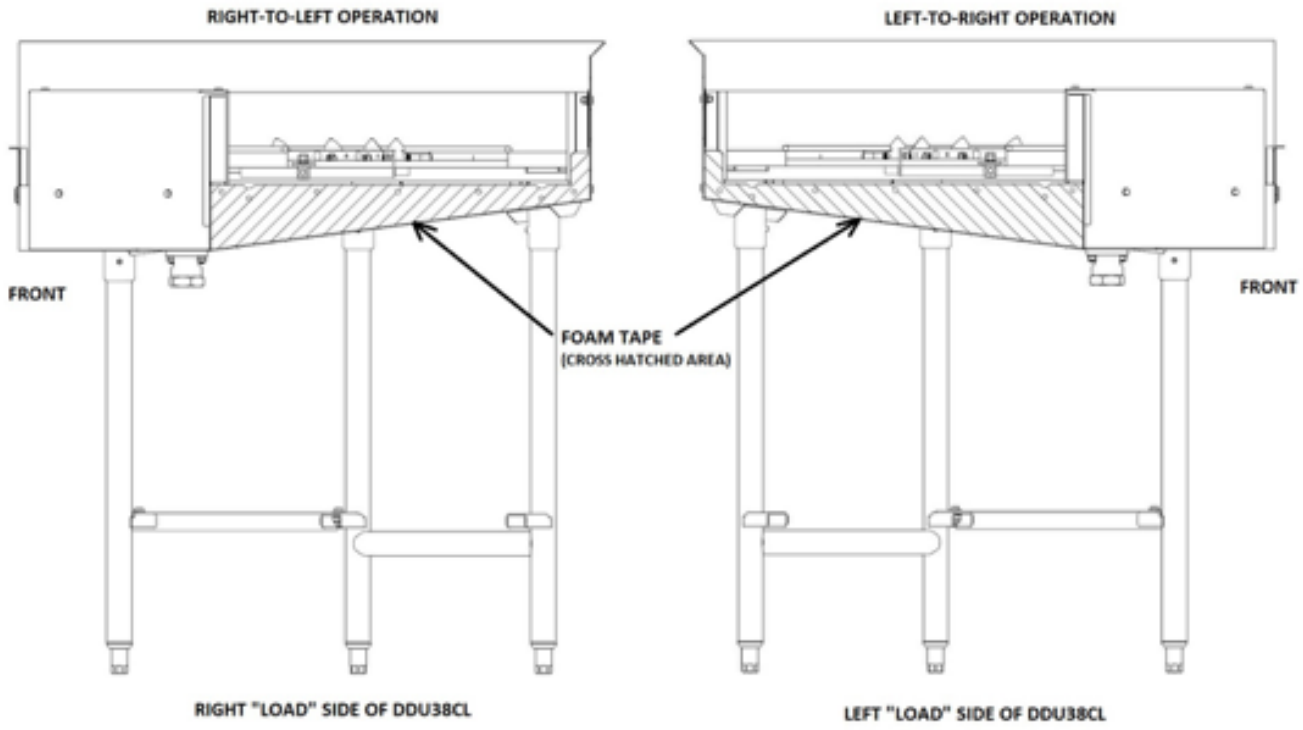


Fig. 4

Assemble Unloader to Dishwasher

Remove the lower track bolts, washers, and nuts

The two lower track bolts, washers, and nuts at the exit end of the machine will need to be removed. These items will be replaced with the 1/4-20 hardware supplied when installing the DDU.

Assemble Unloader to end of the Dishwasher

Position DDU in place and adjust the feet on DDU so the holes in the front and rear line up.

Install using the 1/4"- 20 x 3/4" bolts, lock washers, and nuts (provided) and the hardware removed from the lower track holes, join the sections together.

Assemble Splash Guards (Optional)

Install the 00-936696 and 00-815045 splash guards between dishwasher and unloader by bolting them to the lowest hole on the chamber end as shown below. Assemble using two 1/4" - 20 x 5/8" screws, lock washers, and nuts (provided). See Fig. 5 & Fig. 6.

Install the front table side splash guard, 01-605352, inside the DDU38CL using the existing lock washer and nut holding the end panel in place. The splash guard can be adjusted upward to close the gap between the table and the DDU38CL. See Fig. 7.

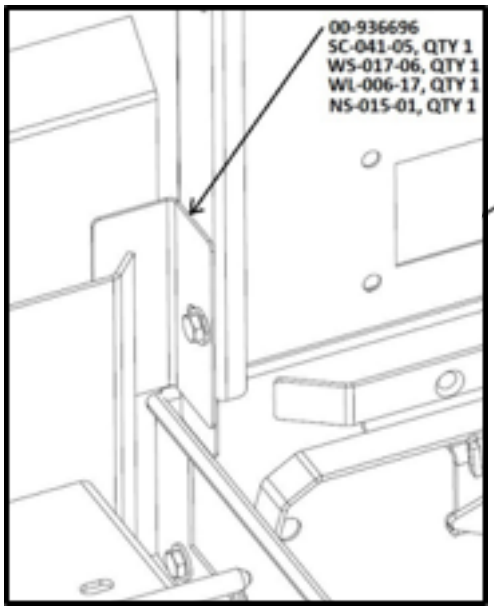
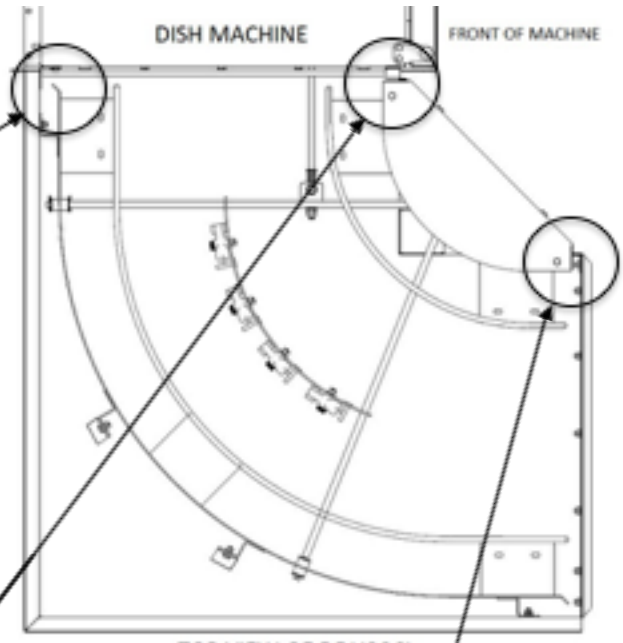


Fig. 5



TOP VIEW OF DDU38CL
R-L model shown

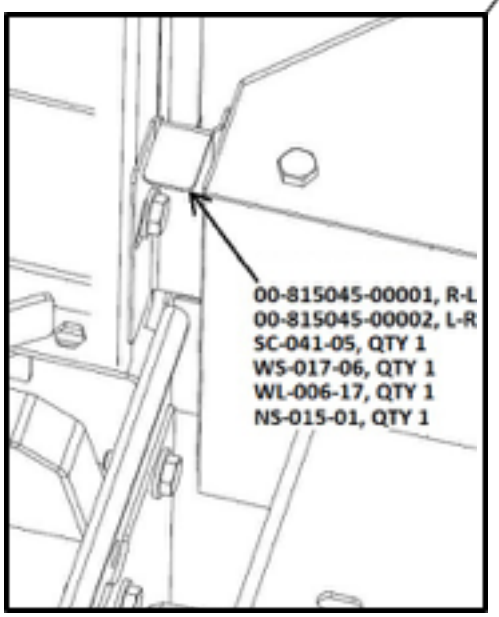


Fig. 6

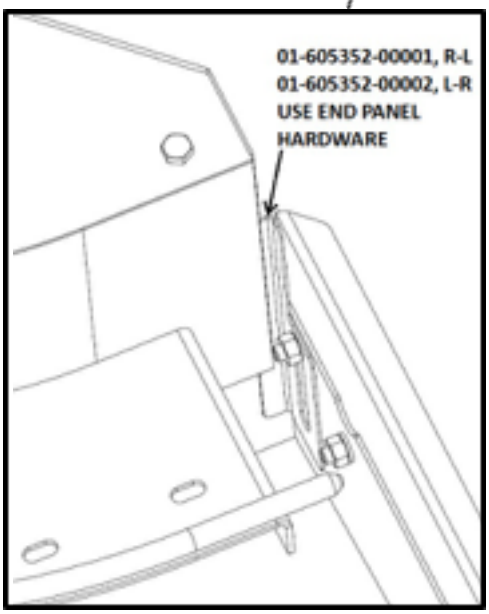


Fig. 7

Direct Drive Linkage

Connect the linkage between the DDU Carriage and the Dishwasher Cradle (Fig. 8).

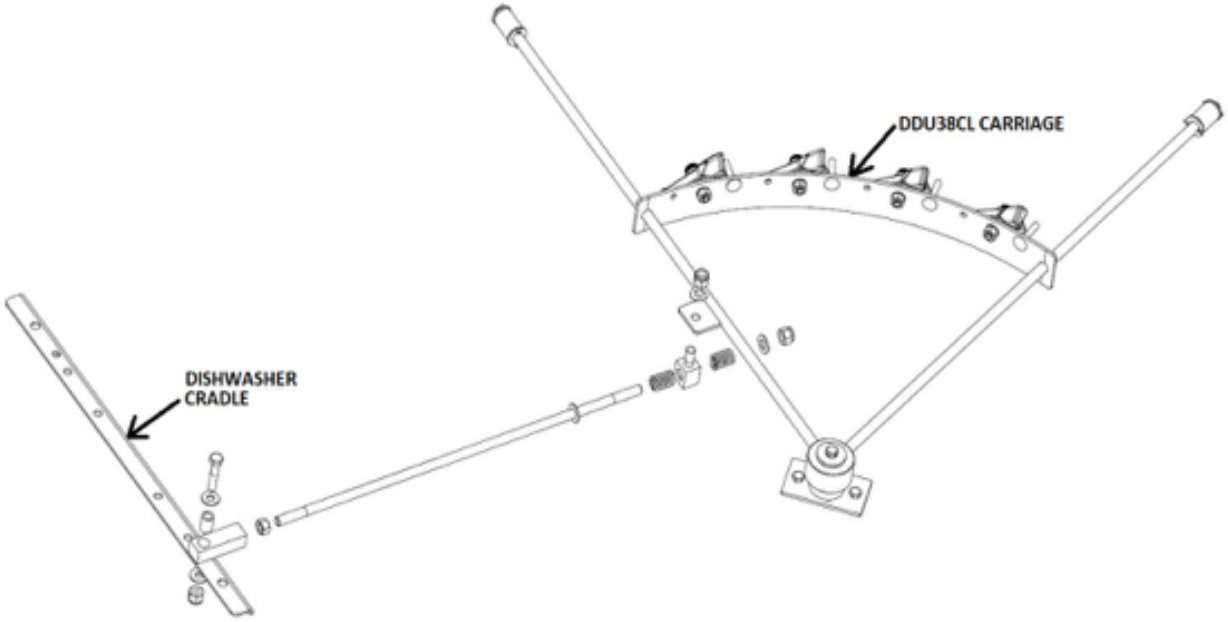


Fig. 8

The 18" long drive rod weldment, 00-936752, is shipped assembled to the DDU38CL and can be used on the CL44/54/64/66/76/86 models. The drive rod assembly is to be mounted on top of the dishwasher cradle. If necessary, rotate the adjustable drive rod end to synchronize the start and stop movement of the cradle and carriage. Assemble the drive rod assembly to the cradle as shown and tighten all hardware. This could cause a malfunction of the drive or tank leakage if not tightened.

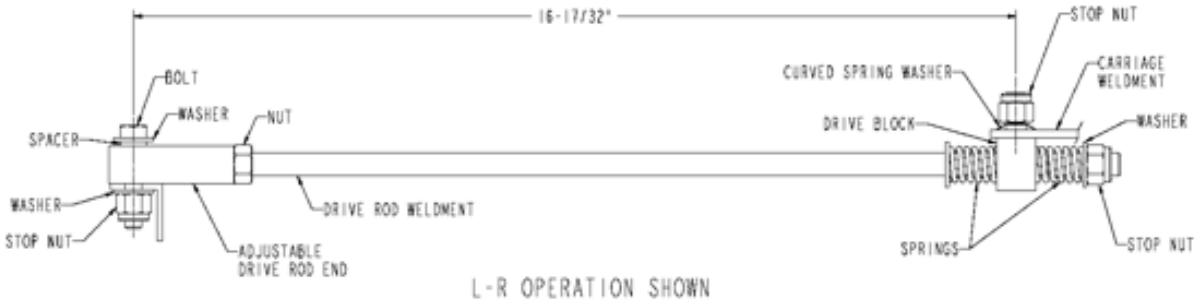


Fig. 9

Assemble Dish Table to Unloader

Assemble a suitable dish table (not included) to the discharge end of the Unloader. Use suitable fasteners, such as two or more stainless steel 5/16" - 18 x 5/8" machine screws, lock washers, and nuts (not provided). Use silicone sealer or 1" foam tape between dish table and tank lip on Unloader to make a watertight seal. The dish table should tilt so it drains into the Unloader.

Track Guide Leveling

The track guides on which the rack rides should be even or slightly lower as the rack progresses from the Dishwasher to the Unloader and from the Unloader to the dish table.

Plumbing Connection

⚠ WARNING Plumbing connections must comply with applicable sanitary, safety and plumbing codes.

Drain

The drain fitting (1 1/2" NPT internal threads) underneath the Unloader (Fig.1) should be properly connected to a suitable drain.

INSTALLING DDU38CL UNLOADER TO BLOWER DRYER

LOCATION

Place Dishwasher with Blower Dryer and Unloader as close to their final positions as possible. Make sure you leave room to drill mounting holes in end of Blower Dryer. Review all tags and labels but do not remove any until installation is complete. Remove any packaging, tape, wire, and bracing.

ASSEMBLY

Verify the Blower Dryer is correctly installed per installation Instructions F41108 provided with the blower dryer.

Leg Installation and Leveling

Refer to page 3 of these Installation instructions.

Make sure adjoining parts of Blower Dryer and Unloader are exactly in line with each other. Turn leveling feet (on bottom of legs) in or out to adjust height and level machine. Also, refer to Track Guide Leveling.

Remove and discard the end plate of the blower dryer (Fig. 10).

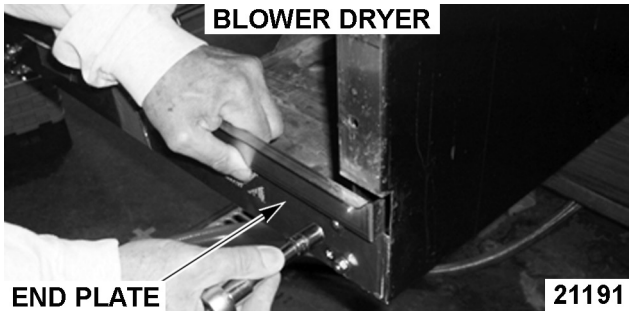


Fig. 10

Drill Holes

Locate template F41257 on the end of the blower dryer tank.

For both L-R and R-L machines the vertical arrow points up and horizontal arrow points toward the operator side (control) of the machine.

For L-R machines use the back side of the template. You will be able to see the arrows through the paper.

Mark holes (5) with center punch to be drilled in blower/dryer tank (Fig. 11).

Drill (5) .312" holes, removing burrs and shavings from inside machine.

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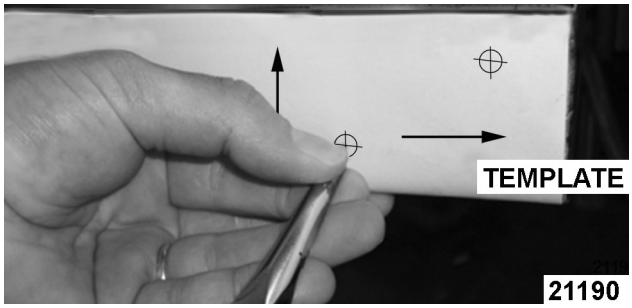


Fig. 11

Apply Foam Tape

Apply 1-1/2" foam tape (supplied) to surface of DDU38CL where Unloader and Blower Dryer tank meet (Fig. 12). Use a Phillips screwdriver to punch through the foam tape where it covers the seven holes in the end of the DDU.

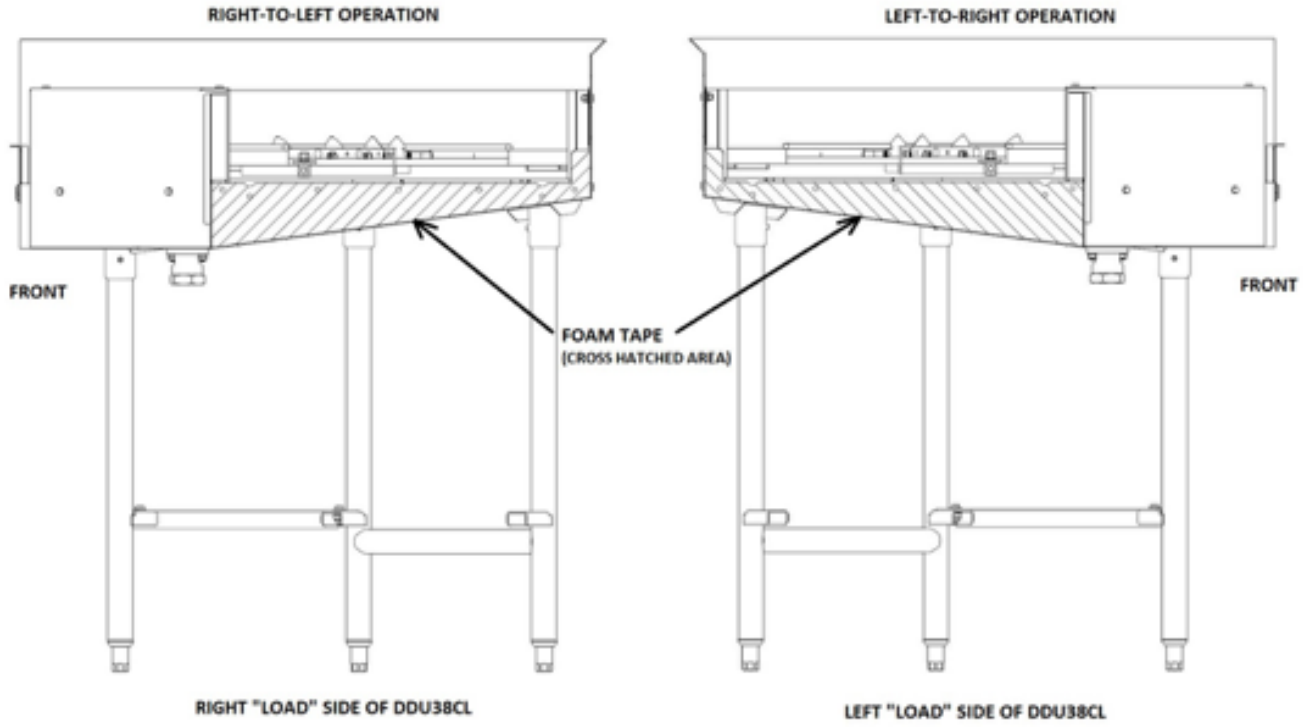


Fig. 12

Apply foam tape to the end of the blower dryer tank (Fig. 13). Use a Phillips screwdriver to punch through the foam tape where it covers the five holes that were drilled previously.

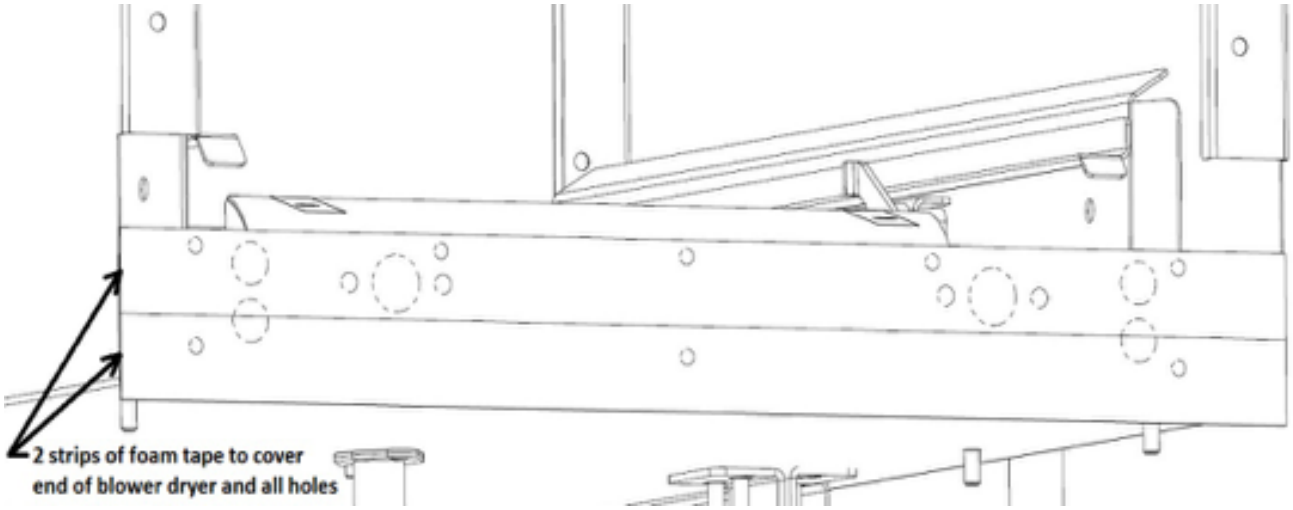


Fig. 13

Attach Adapter Plate to DDU

Join the adapter plate 01-605278-00001 (for a Right to Left unit) or 01-605278-00002 (for a Left to Right unit) to the DDU using the provided lock washers and ¼-20 nuts (Fig. 14). The lip at the top of the plate is positioned toward the DDU. The plate studs will pass through the DDU.

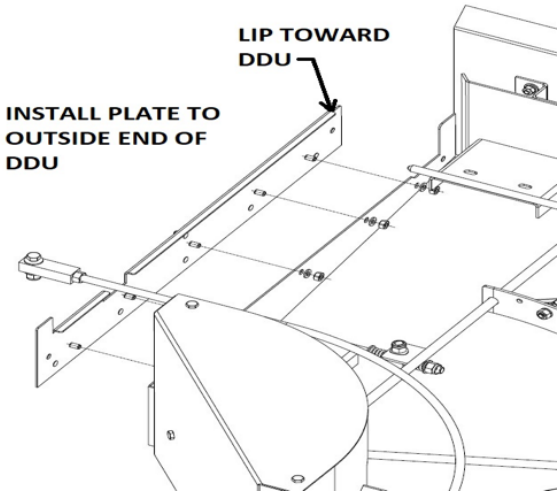


Fig. 14

Assemble Unloader to Blower Dryer

Position DDU in place and prepare to install. Adjust feet on DDU so the holes in the front and rear line up.

Attach DDU to Blower Dryer

The studs on the other side of the adapter plate will match the holes drilled in the blower dryer tank. Join the DDU (with adapter plate) to the Blower Dryer using the provided lock washers and ¼-20 nuts (Fig. 14). Important: Bolt through the DDU tank, adapter plate, and BD tank at the two outside holes using the ¼-20 x 5/8” long bolts, washers, lock washers, and nuts (Fig. 15).

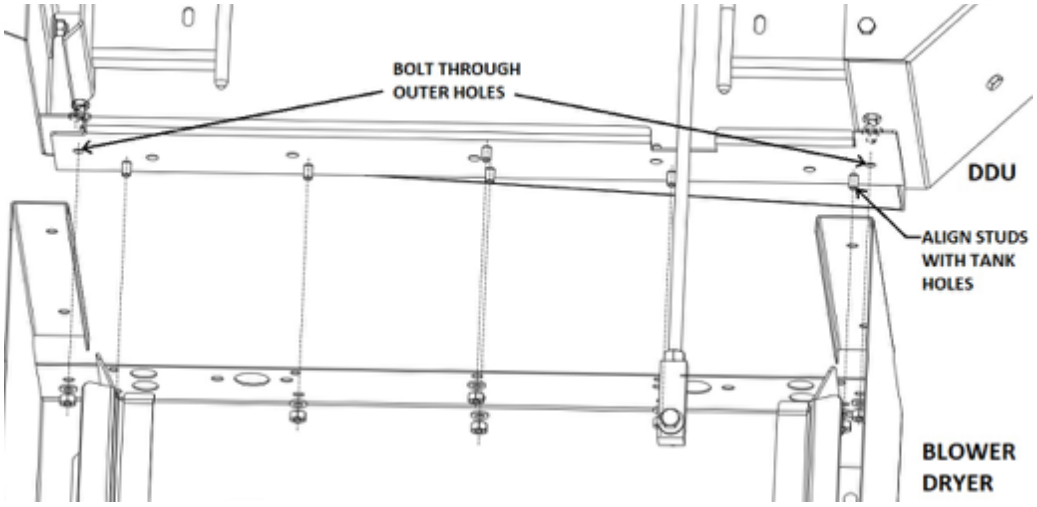


Fig. 15

Direct Drive Linkage

Connect the linkage between the DDU Carriage and the Blower Dryer Cradle 00-936813.

Remove the 00-936752 rod weldment (18” long) shipped assembled to the DDU and replace it with the supplied 00-936935 rod weldment (21-3/8” long).

Connect the linkage between the DDU and Blower Dryer as shown below with the hardware (bolts, washers, and nuts) provided in the kit (Fig. 16).

Note that the adjustable drive rod end (474990) is installed below the Blower Dryer cradle plate (936813) with the NS-015-11 as a spacer between the linkage and cradle to align the linkage.

Once linkage is assembled ensure all fasteners including linkage and DDU to tank are tight.

This could cause a malfunction of the drive or tank leakage if not tightened.

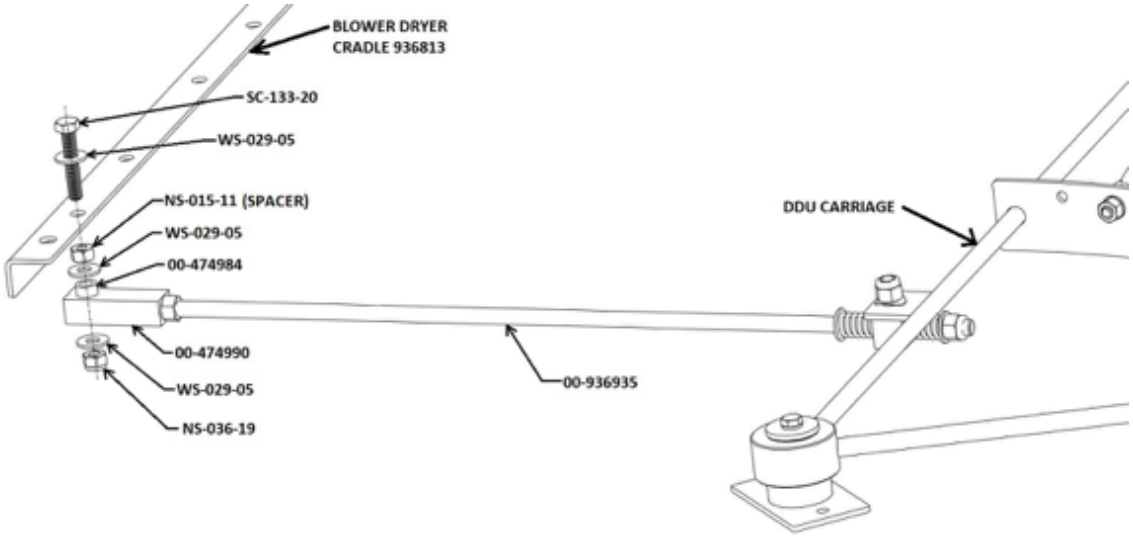


Fig. 16

Modify the Blower Dryer Deflector Pan and Check Drive Movement

Remove the required drive rod knockout in deflector pan (Fig. 17) to allow drive rod to pass though. Ensure the drive system moves freely. There should be a small amount of free movement when the DDU is pushed and pulled. Ensure the linkage does not rub or bind.

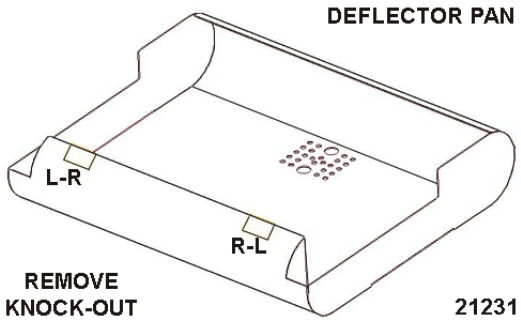


Fig. 17

Assemble Dish Table to Unloader

Assemble a suitable dish table (not included) to the discharge end of the Unloader. Use suitable fasteners, such as two or more stainless steel 5/16" - 18 x 5/8" machine screws, lock washers, and nuts (not provided). Use silicone sealer or 1" foam tape between dish table and tank lip on Unloader to make a watertight seal. The dish table should tilt so it drains into the Unloader.

Track Guide Leveling

The track guides on which the rack rides should be even or slightly lower as the rack progresses from the Dishwasher to the Unloader and from the Unloader to the dish table.

Check for proper operation.

Plumbing Connection

⚠ WARNING Plumbing connections must comply with applicable sanitary, safety and plumbing codes.

Drain

The drain fitting (1 1/2" NPT internal threads) underneath the Unloader (Fig. 1) should be properly connected to a suitable drain.

INSTALLING DDU38CL UNLOADER TO SPOT FREE RINSE MODEL

LOCATION

Place Spot Free Dishwasher and Unloader as close to their final positions as possible. Make sure you leave room to drill mounting holes in end of Spot Free Dishwasher. Review all tags and labels but do not remove any until installation is complete. Remove any packaging, tape, wire, and bracing.

ASSEMBLY

Leg Installation and Leveling

Refer to page 3 of these Installation instructions.

Make sure adjoining parts of the Spot Free Rinse section and Unloader are exactly in line with each other. Turn leveling feet (on bottom of legs) in or out to adjust height and level machine. Also, refer to Track Guide Leveling.

Drill Holes

Align template 01-605354 (Fig. 18) with the four outside holes on the exit end of the Spot Free tank.

For both L-R and R-L machines the vertical arrow points up.

Mark holes with center punch to be drilled in the dishwasher tank.

Drill (5X) 5/16” holes and (1X) 1” hole, removing burrs and shavings from inside tank.

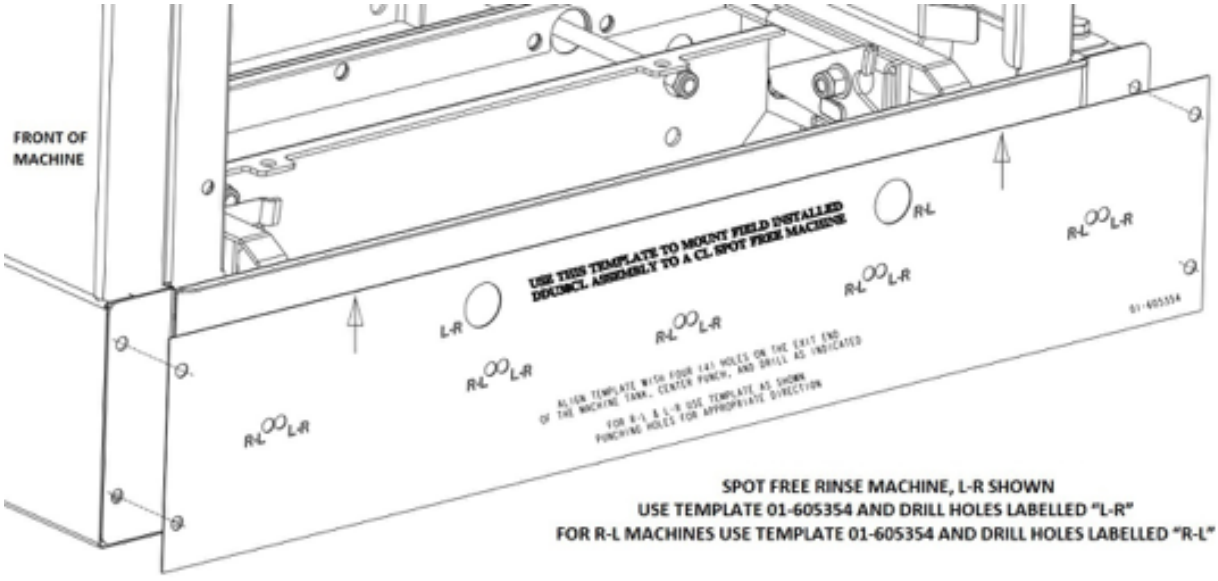


Fig. 18

Apply Foam Tape

Apply 1-1/2" foam tape (supplied) to surface of DDU38CL where Unloader and the Spot Free Rinse tank will meet (Fig. 19). Use a Phillips screwdriver to punch through the foam tape where it covers the seven holes in the end of the DDU.

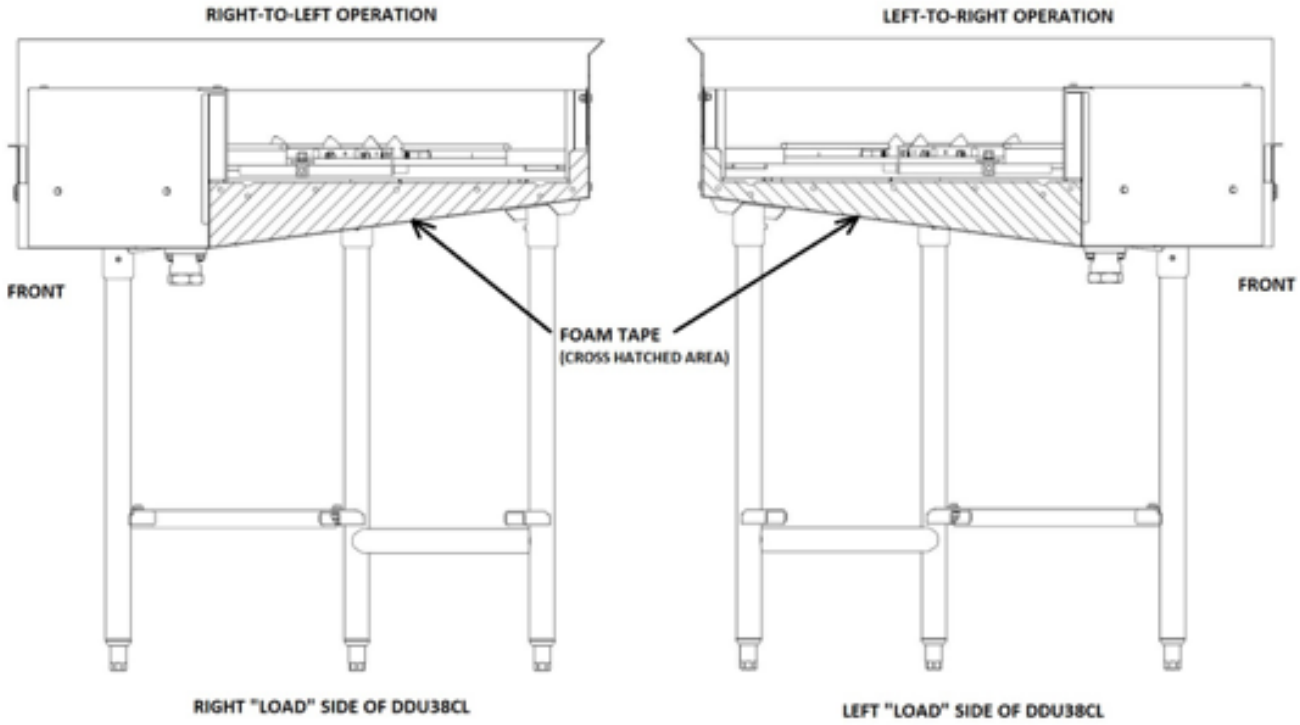


Fig. 19

Assemble Unloader to Dishwasher

Remove the lower track bolts, washers, and nuts

The two lower track bolts, washers, and nuts at the exit end of the machine will need to be removed. These items will be replaced with the 1/4-20 hardware supplied when installing the DDU.

Assemble Unloader to end of the Dishwasher

Position DDU in place and adjust the feet on DDU so the holes in the front and rear line up.

Install using the 1/4"- 20 x 3/4" bolts, lock washers, and nuts (provided) and the hardware removed from the lower track holes, join the sections together.

Direct Drive Linkage

Connect the linkage between the DDU Carriage and the Dishwasher Cradle 00-814411.

Remove the 00-936752 rod weldment (18” long) shipped assembled to the DDU and replace it with the supplied 00-936935-00002 rod weldment (16” long).

Connect the linkage between the DDU and Dishwasher as shown below with the hardware (bolts, washers, and nuts) provided in the kit (Fig. 20).

Note that the adjustable drive rod end (474990) is installed below the Spot Free Dishwasher cradle plate (00-814411) with the NS-015-11 as a spacer between the linkage and cradle to align the linkage.

Once linkage is assembled ensure all fasteners including linkage and DDU to tank are tight.

This could cause a malfunction of the drive or tank leakage if not tightened.

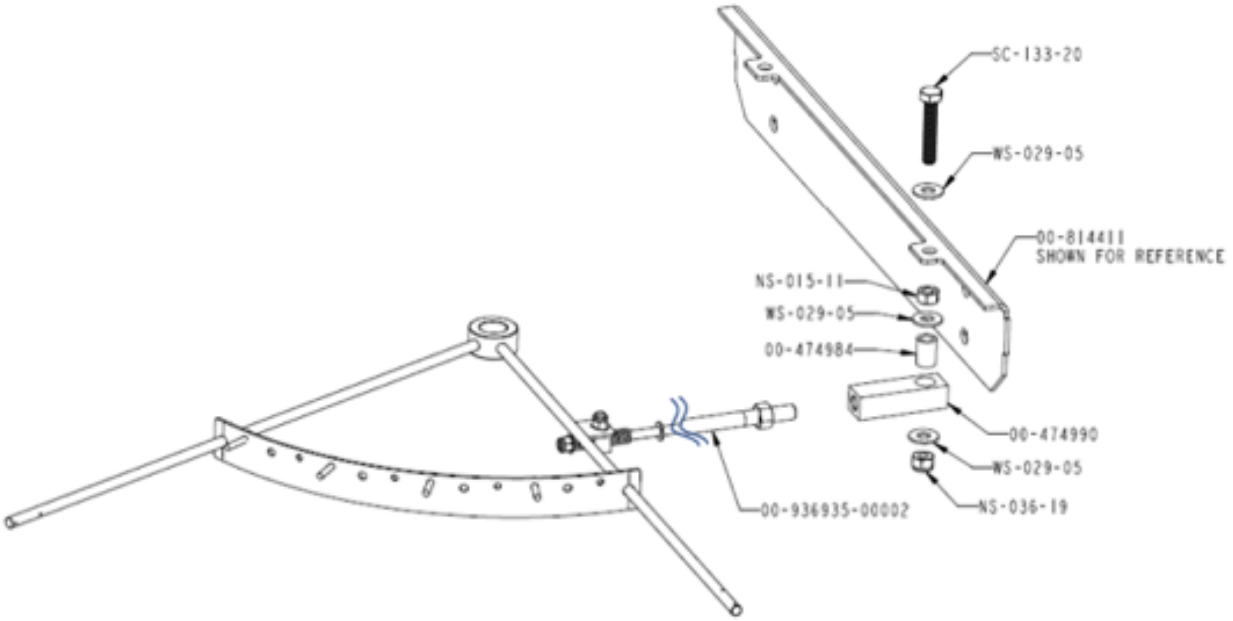


Fig. 20 (Left-to-Right shown)

Assemble Dish Table to Unloader

Assemble a suitable dish table (not included) to the discharge end of the Unloader. Use suitable fasteners, such as two or more stainless steel 5/16" - 18 x 5/8" machine screws, lock washers, and nuts (not provided). Use silicone sealer or 1" foam tape between dish table and tank lip on Unloader to make a watertight seal. The dish table should tilt so it drains into the Unloader.

Track Guide Leveling

The track guides on which the rack rides should be even or slightly lower as the rack progresses from the Dishwasher to the Unloader and from the Unloader to the dish table.

Check for proper operation.

Plumbing Connection

⚠ WARNING Plumbing connections must comply with applicable sanitary, safety and plumbing codes.

Drain

The drain fitting (1 1/2" NPT internal threads) underneath the Unloader (Fig. 1) should be properly connected to a suitable drain.