

Installation sheet on DEF 10231 TK

First be sure your Tote has a top rail no wider than 1”

Next take the large red plate out of the box and lay the large red plate bent side down (back) on the table with the smooth side up (front).

Then unpack the 10231 pump packed separately.

Screw the spout in the pump using a thread sealant (PTFE Tape)

Next use the tape to seal the bushing threads in the inlet side of the pump.

Also screw in the 90 degree $\frac{3}{4}$ ” fitting with $\frac{3}{4}$ ” hose barb. This is the inlet side and should be positioned like the picture.

Now take the red plate and use the two “U” bolts with the nuts supplied to attach the pump body to the front of the plate, the nuts are on the back side of the plate. You can use the additional plate that comes with the “U” bolts if you prefer. **Do not over tighten these to avoid cracking the pump body.** Only snug the bolts. Be sure to alternate tightening, tighten one “U” bolt then the other, so you tighten them equally. The “U” bolt should fit around the pump next to the body not on the fittings in the pump.

Once this is done bolt the tray in the top two holes. If you need more clearance due to the container size use the lower two holes. This can be changed any time after this bracket is mounted on the tote.

Next slide the small clamping bracket so it is on the same side as the bends on the big bracket. Be sure you have the bent flange against the back side of the big bracket. This will act as a clamp on the second rail on the tote to stabilize the bracket. Both these bolts should be started but left loose at this time. (See photo.)

Installing the Pump bracket on the tote.

As you hang this bracket on the top rail be sure to slide the clamping bracket behind the second rail.

Once the pump bracket is sitting flat on the top rail snugly tighten the two screws on the clamping bracket.

You have two bungs with buttress threads; one has a nipple for the filter the other has a 3/4" barb fitting on both sides.

Cut a section of DEF Hose which is included and is about 50" to be used as a down tube in the DEF solution. Attach this with the bottom Barb fitting on the bung with the supplied Stainless Steel clamp. Be sure to tighten snugly to maintain suction.

Next be sure to use a clean rag and deionized water to clean the outside of the hose to prevent contamination of the DEF and use deionized water to flush this end of the hose.

Use the other bung to allow the tote to breath through the filter supplied when removing fluid. When pumping, this will be the only source of air which the pump needs to work properly.

Now cut the leftover DEF hose to connect the center bung to the pump using the two supplied Stainless Steel clamp. Be sure to tighten the clamps to eliminate any suction leaks.

Last we have supplied a 54" flexible hose to reach from the outlet spout to the container. This should be cut to a length that will allow the hose to fit down in the container about 4". This will stop the hose from coming out when pumping. **If you decide to leave the length of the hose longer it is important not let the hose lay on the ground to prevent the end of the hose from being contaminated.**

When everything has been hooked up be sure to pump out several gallons of DEF to clean the pump, hoses, and thread connections. This pump will pump 1 Gal per 10 revolutions.

If at any time the pump fails to pump first check to see if the filter is the problem by removing it and trying again. This pump will work even if the fluid level in the tote is very low. This system is designed so that when it is primed it will stay that way at all times. This will stop any air or contamination from backing up into the tote.

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