

This will allow your pump to spin freely, and not steal horsepower from your engine.

picture 1 - Remove the 4 bolts, and push the two retainer pins from the back cover.
you can use two 2x4's to sit the pump higher so as not to damage the fan on the front.

picture 2 - Separate the back cover (fan guide) from the cylinder assembly.
You may have to use a few large screwdrivers and force the pieces apart.
After they are separated - you will see the fan blades inside the cylinder.

picture 3 - Use a hammer and a large chisel to break apart the plastic and metal fan parts,
then they can be removed from inside the pump.
Make sure you get all the little pieces - there will be some pieces in the grooves of the cylinder wall.

picture 4 - If the pump was spinning previously -
you can use this point to clean the aluminum housing and paint the rear cover Semi flat black.
water will not hurt anything - clean and detail everything.
If the pump was frozen - both of the bearings will need to be pressed out and replaced.

Don't use abrasives on the aluminum - I like to use soap and water, and then some aluminum cleaner.

Don't sandblast the pump, it will change the finish and feel of the aluminum.

The front cases were not painted - they are natural aluminum.

Clean and grease the rear bearing.

Assemble the pieces - bolt the bolts - push the pins back in place.

Install your white fan and you are good to go -







