2013+ GT500 Intercooler Water Pump “Remsen” De-Gas Mod Instructions For 05-14’ S197’s

If you are upgrading your S197 intercooler system to the 13’ GT500 water pump you want to add this bypass system to avoid de-gas issues and pump cavitation.

This is what Ford did with the GT500 when they started using the 13’ pump which flows quite a bit more water than the previously used and industry standard Bosch.

Because the pump flows so much more water it creates a lot of turbulence in the de-gas tank. This turbulence allows air to get into the water, which then gets into the pump, which reduces pumping volume and the density of the water. Both are things you don’t want.

Basically, what you’re doing is reducing the amount of water that flows through the de-gas tank which reduces turbulence. The partial bypass means it takes longer for the water to completely de-gas when you first fill the system. It’s a small price to pay.

These aren’t super detailed. Just the important stuff that is tougher to figure out.
These are written as if you’re also using a 13’ GT500 heat exchanger. But they work the same no matter what heat exchanger you’re using.

**Parts List**

- 13’ GT500 intercooler water pump part # DR3Z-8501-A
- 13’ GT500 water pump jumper harness # DR3Z-14A411-C
- One sections of .75” 90 deg hose. We used Gates #28474.
- .75” hose tee. These are not as common as you would think. We got ours bulk off of eBay. They had no part number.
- Hose clamps x6

**Assembly**

We apologize for not having more pictures.

1-1

Insert the 3/4” Tees in your de-gas bottle feed and return lines as shown.
Add a section of 3/4" hose between the tees. Ignore the hose clamp in the middle of that hose. We don't know what that was for.
1-3

Install the pump. You don’t have to put it in this location. But if you’re using a 13’ GT500 heat exchanger it’s going to be the best place to put it. The pump in this pic has a clamp on it for mounting. A mount for this pump is nearly not required. It’s very light and the hoses themselves provide a lot of support for it. If you feel you want to mount it to something go right ahead though.