

VMP Trunk Ice Tank for '79-'23 Mustangs

Associated part numbers: VMP-ICE100, VMP-ICE200, VMP-ICE300

Part	Quantity
VMP Ice tank body	1
TCL 4 clear tank Lid - 9" diameter (7" opening) - 10 bolt	1
1/2 NPT 4.5" anode	1
Kuriyama long round hole zinc plated steel strainer - 1-1/2" female NPSM	1
Trunk ice tank strainer adaptor	1
Breather vent nickel-plated steel, 1/2 NPT male	1
Plastic pipe fitting for oil plugs with external hex drive, 1/2 NPT male	1
EMP/Bosch/GT500 intercooler pump bracket for trunk ice tank	1
C-max intercooler pump bracket for trunk ice tank	1
C-max Coupler outlet for VMP trunk ice tank	1
CWA50 Coupler for VMP trunk ice tank	1
EMP Coupler for VMP trunk ice tank	1
CMax 1.5" Straight Coupler	2
Brass On/Off Valve with Lever Handle, 1/2 NPT Female x 1/2 NPT Male	1
1.5" to 0.75" male to male adapter	1
1.5" to 1" male to male adapter	1
Washer for M6 Screw Size, 6.4 mm ID, 12 mm OD	4
Ultra-Weather-Resistant Foam, 1" Wide, 1/4" Thick, 12" Long	1
M8 x 1.25 mm Thread, 30 mm Long	2
M8 x 1.25 mm Thread, 50 mm Long	1
M8 x 1.25 mm Thread, 20 mm Long	4
M8 Nylon Locking Nut	3
Zinc-Plated Steel Oversized Washer for M8 Screw Size	4
Aluminum Spacer 3/4 OD x .319 ID x 1/2 Long	1
Hex drive screw 10-32 thread size, 5/8" long - 10 for the lid, 4 for the bracket	14



NOTE: Begin your installation by assuring you have all the parts and tools necessary to install the CAI on the vehicle. If you have any missing parts or need technical assistance, please call 321-206-9369 Mon-Fri 9 am-5 pm EST. If it is outside regular business hours, please email us at Sales@VMPPerformance.com, and one of our associates will get back to you as soon as possible.

Installation:

1.) Install spinweld accessories.

- a.) VMP-ICE100 only comes with 4 plugs that can be inserted into threaded spinwelds 1-4 in figure 1 below. (skip to the installation step)
- b.) VMP-ICE200 and VMP-ICE300 come with a vent, drain, plug, and anode. Using the included teflon tape the anode should be screwed into the spinweld labeled 3 in figure 1. Using the remaining teflon tape install the drain into position 4 in figure 1. The vent can be placed in either position 1 or 2, position 1 may leak some fluid during hard acceleration. Place the plug in the spinweld not being used by the vent.



Figure 1: Spin weld locations

2.) Install the strainer.

- a.) Screw the strainer into the strainer adaptor, as shown in figure 2 below. (make sure to tighten it as much as possible by hand only).
- b.) Slide the smooth side of the strainer adaptor into the back side of the inlet that you will mount the pump to.



Figure 2: Strainer installation

3.) Install the foam padding on the bottom side of the tank.

- a.) Using the included 12in of single sided adhesive foam tape, cut into 4 equal sections and apply to the bottom of the tank as shown in figure 3 below.

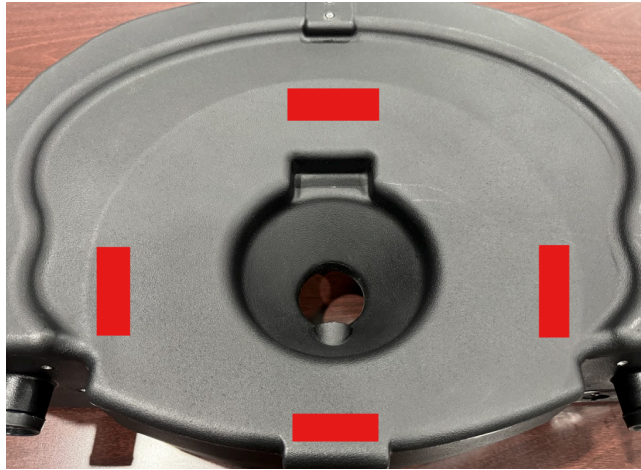


Figure 3: Single sided foam installation locations

4.) Install the intercooler pump bracket that supports the pump you are planning on using.

- a.) The pump mounting bracket shown in figure 4 is used in the VMP-ICE300 kit and when using a C-max pump with the VMP-ICE200 kit. This bracket's ideal mounting location is on the drivers side and the orientation shown in figure 4.
- The bracket should first be attached to the tank using four 10-32 bolts with accompanying washers.
 - Next install one of the two couplers labeled "VMP-CMAX", connect one side to the tank and the other to the inlet of the C-max.
 - Install the 50 mm long M8 bolt, M8 washer, the ½ in. spacer between the C-max and the bracket, and the M8 nut on the bottom into the side with the single hole
 - Install the 30 mm long M8 bolts, M8 washer, and the M8 nuts to the side of the bracket with two holes.
 - Tighten the bolts to secure the pump to the bracket.
 - Install the correct size hose clamps for your application and tighten thoroughly.



Figure 4: C-Max bracket installation

- b.) The pump mounting bracket shown in figure 5 is used with the EMP, Bosch, and factory gt500 intercooler pumps.
- i.) When installing the EMP pump, start with securing the bracket to the ice tank (preferable on the passenger side) using the included 10-32 bolts with accompanying washers.
 - ii.) Connect the silicone adapter labeled EMP, the larger side goes to the tank and the smaller side goes over the inlet of the pump.
 - iii.) Using the four 20 mm long M8 bolts and washers, attach the pump to the bracket. This is shown in figure 5 below.
 - iv.) After adjusting the pump into the desired location tighten the four bolts to secure the pump.
 - v.) Install the correct size hose clamps for your application and tighten thoroughly.



Figure 5: EMP bracket installation

- c.) The Bosch and factory gt500 intercooler pumps will be mounted with the same bracket as the EMP pump.
- i.) Start with securing the bracket to the ice tank using the included 10-32 bolts with accompanying washers.
 - ii.) Using the smallest 0.75" coupler connect the pump to the tank inlet.
 - iii.) (The factory gt500 pump may need the rubber mounting sleeve to be turned around.)
 - iv.) Using the mounting tab on the bracket, secure the pump.
 - v.) Install the correct size hose clamps for your application and tighten thoroughly.

5.) Install the tank into the car.

- a.) Place the tank into the center of the trunk with the inlet and outlet facing the back of the car.
- b.) Run the intercooler lines in your preferred layout, make sure the return line goes straight into the tank without any tight kinks in the hose.
- c.) Using the supplied adaptors you will be able to run 0.75", 1", or 1.5in" hose.
- d.) Install your pump wiring harness
- e.) Using the factory mounting hardware, secure the tank to the trunk floor. Make sure to tighten the factory nut until the tank does not move.
- f.) There are three additional mounting positions on the top of the tank, as well as two on the bottom. These use the same 10-32 bolts used to secure the pump brackets to the tank.



Figure 6: Tank installation