



Cooling Kit Installation Instructions

Read all instructions before installing any part of this kit. Installation of the kit requires the use of a welder. This kit is designed to allow the end-user to position the radiator where they desire. This kit was designed around Summit Racing's radiator PN: SUM-380645. Additional parts required by the end-user include but are not limited to:

- **1-3/8" Coupler to join supplied radiator hoses to stock Mercedes hoses**
 - (siliconeintakes.com has this part.)
- **Barbed fittings to join heater hoses**
- **Hose clamps**
 - I have yet to find a hose clamp of high and consistent quality. I do not wish to supply parts that may fail or cause leaks, so I am not offering hose clamps at this time. My best recommendation, is NAPA, but I have seen some brand new NAPA hose clamps fail, too.
- **Stock Mercedes radiator hoses**
- **Stock Toyota driver side heater hose**
- **Mercedes pressure tank**
- **Mercedes pressure tank hose**
- **Toyota radiator cap**

Begin by verifying kit contents. You should have the items shown in the picture below, as well as:

- 2 pressure tank mounting brackets
- Pressure tank hose and barbed reducer
- 2 radiator hoses
- Pressure tank dowel pin
- Hardware



Begin by removing the Toyota radiator and A/C condenser. Remove the hood latch mechanism and cable.

Find the Bottom Mounting Plate and the 3/8" thick bar stock. The 3/8" plate will weld to the Bottom Mounting Plate. I have laser etched lines into the Bottom Mounting Plate to show where I weld the bar stock. It is up to you where you want to weld it on, as it will determine where your radiator is mounted.

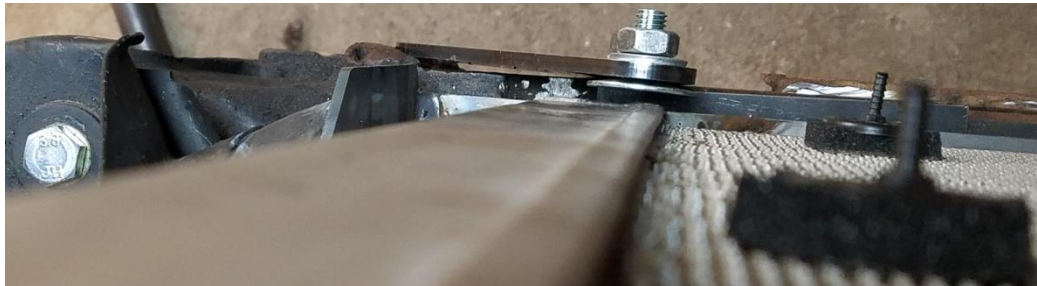


Make sure to clamp the work pieces together to prevent warping.



Determine where the radiator will be mounted (use reference pictures if you wish). You want to leave a minimum $\frac{1}{4}$ " gap between body and frame, and radiator sides to radiator cradle.

Use the supplied radiator Bottom Mounting Plate to gauge how wide of gap to cut. Cut a straight line from top to bottom on both sides of the core support. The 2 Side Plates will be welded to the front core support. The top of the side plates should sit flush with the top of the core support, that they may not interfere with the Top Bracket. If you are installing my 1" bumper lift, you will want to make certain that you have at least $\frac{1}{4}$ " clearance between it



and your radiator.

Once you have your radiator roughly positioned, weld in both Side Plates.



Position your radiator so your hoses will fit.



It is also a good idea to make sure your fan will clear.



Once you are comfortable, weld the Bottom Mounting Plate to the bottom of the Side Plates.



Apply 1 strip of the supplied Foam with adhesive backing, to both top and bottom of the radiator.

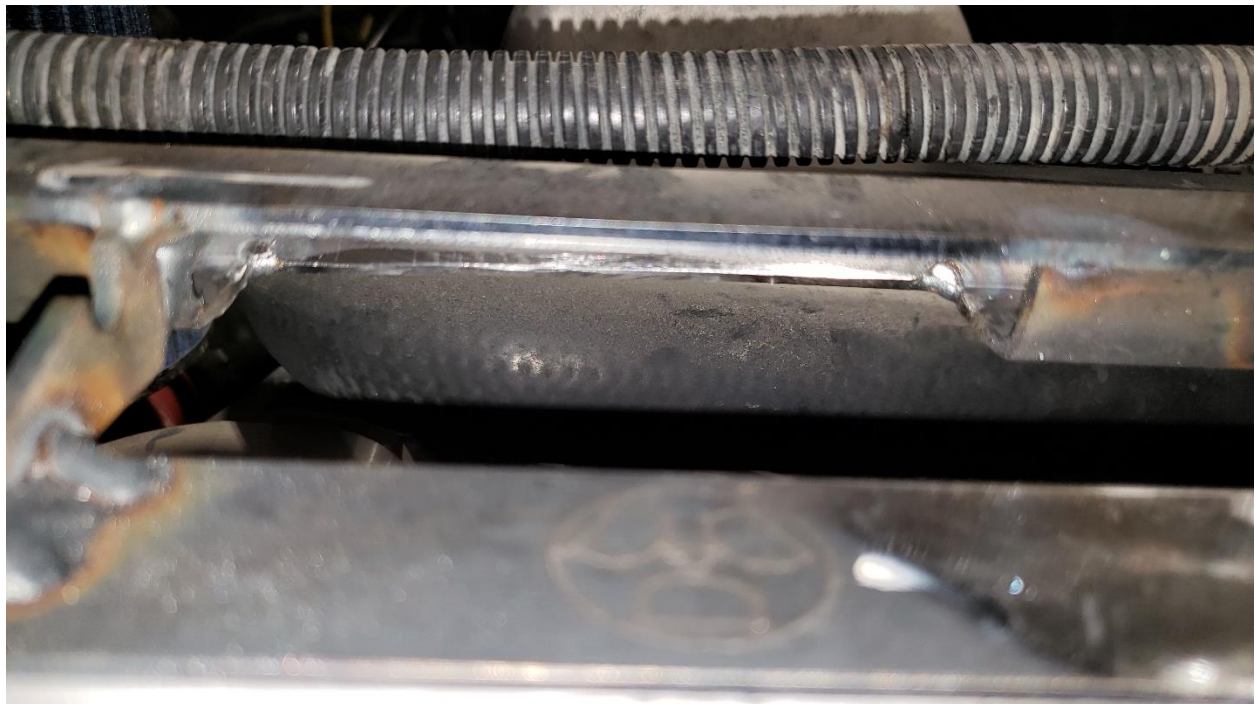
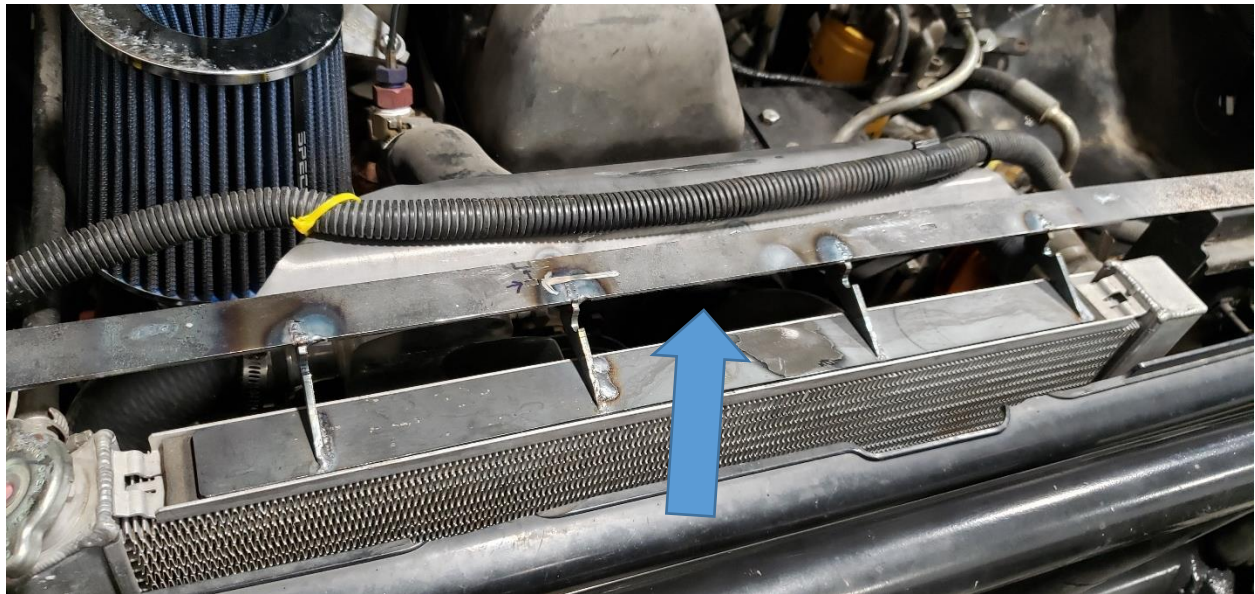


Also seen in the above picture is the radiator cap and hose setup. You will use the stock Toyota radiator cap if you are using the Summit Racing radiator. Simply take the Toyota cap and remove the spring. This will effectively open up the relief valve of the radiator so your pressure tank can properly function.

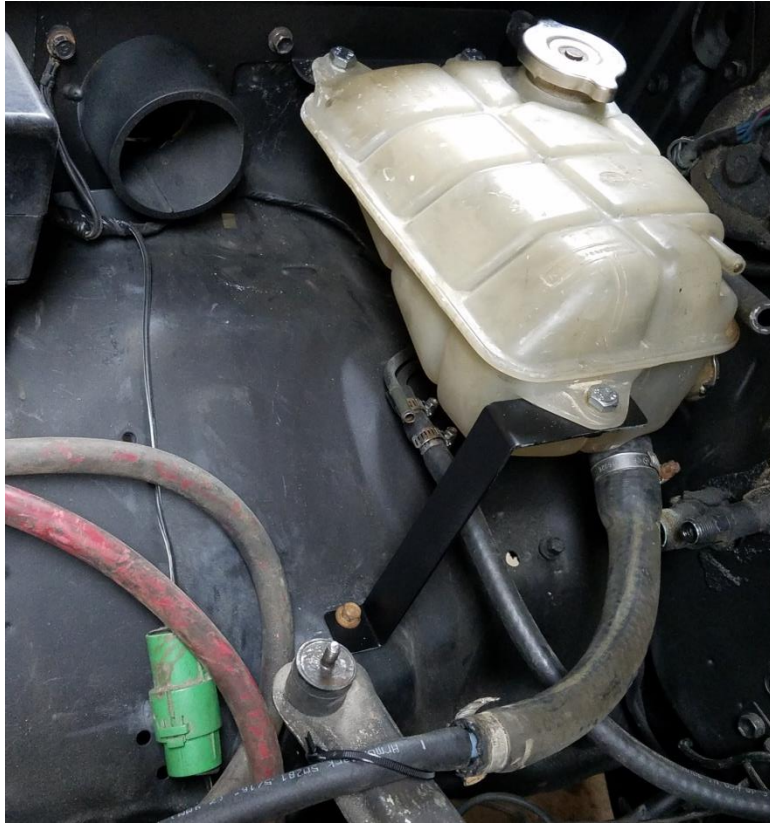
Next, you can bolt in the Top Mounting Plate. The Toyota windshield wiper fluid reservoir will bolt in over top of this bracket. This bracket secures the radiator as well as give a place for the hood prop-rod.

WARNING

The current revision Top Mounting Plate has a partial built-in shroud. This piece works great with electric fans. If you are running the mechanical fan, YOU MAY NEED TO TRIM PART OF THE SHROUD. It is dependent on how high and far forward your motor sits. The portion in-between the two middle gussets is where the fan may hit. See picture below for clarification (blue arrow). Please call if you have any questions.



Next you will mount your pressure tank. If you are only installing the pressure tank, assembly is straight forward. Reference the below picture to see how brackets are oriented. Remove the 5mm sleeve from the pressure tank and install the 5mm dowel pin to block off that port.



If you purchased the fender air-intake bracket, you will need to trace out a hole to cut into your fender.



You will then need to cut off the intake tube from your air filter housing. You will weld the supplied Cap over the void in the filter housing. Use the portion of the intake tube you just removed, and weld it inline with the new fender inlet.



