

C7 INTERCOOLER RESERVOIR TANK



INSTALLATION

INSTRUCTION

MANUAL



OVERVIEW

C7 INTERCOOLER RESERVOIR TANK

The Lingenfelter C7 Corvette Intercooler Coolant Reservoir Tank reduces intercooler coolant temperatures for superior performance in your 2014 through 2019 Chevrolet C7 Corvette.

It is engineered with TIG welded 5052 aluminum for extraordinary corrosion resistance and long term durability.

The fast pour design and additional 2.5 gallons of capacity not only holds more coolant, it also eliminates air pockets and the need for system bleeding.

It comes complete with the necessary fittings and instructions for a Z06 with stock supercharger but may require other hoses and parts for installation with different superchargers and custom applications.

For 2014-2019 C7 Corvette Applications

- Complete with Fittings & Instructions
- High Capacity 2.5 Gallon Coolant Reservoir
- Fast Pour Design Eliminates Air Pockets
- Creates Self-Bleeding Intercooler System



PART NUMBER L300237414

PARTS

LIST

Drain Fitting



Drain Handles



90° Aluminum Elbows



Brass Elbow



Reservoir Tank Cap



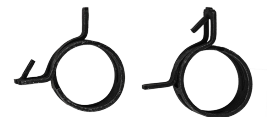
Lingenfelter Intercooler Reservoir Tank



Drain Hose



Spring Clamps



Oetiker Clamps



10mm Sheet Metal Screw



Adapter



INSTALLATION

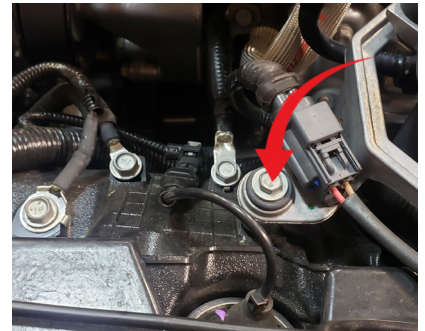
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STEP 1

Before you begin, Let engine cool down to reduce chance of spilling intercooler coolant.

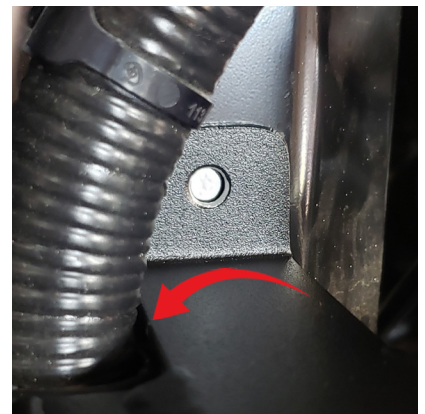
STEP 2

Remove the 10mm head bolt from the vacuum pump bracket. Keep this bolt in a safe place, it will be reused later.



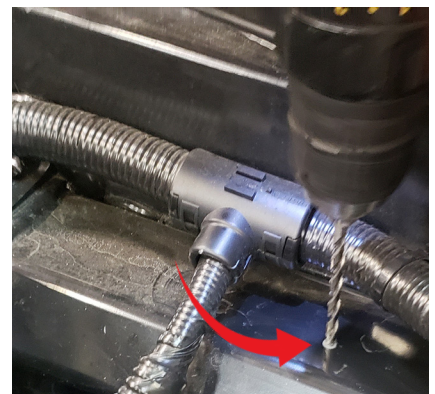
STEP 3

Set reservoir tank down into engine bay, next to drivers fenderwell area. The rear mounting tab will sit directly on top of the vacuum pump bracket where you just removed the bolt. Partially thread in the bolt you removed from previous step, align tank to fenderwell edge, next, mark the hole location for the front mount with a silver sharpie, or paint marker.



STEP 4

Remove reservoir. Then center punch mark, and drill hole using a 3/16 drill bit.



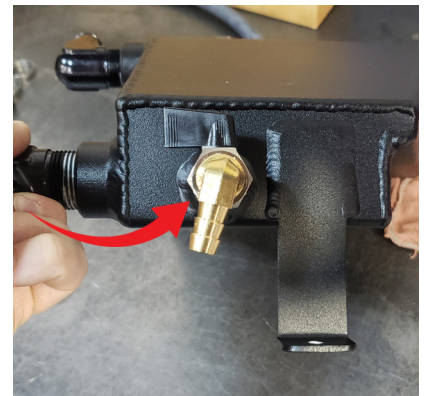
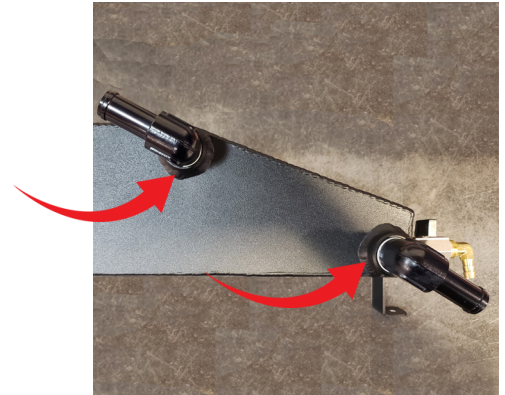
STEP 5

Apply thread paste to the threads of the drain fitting, brass elbow, and two 90° aluminum elbows.



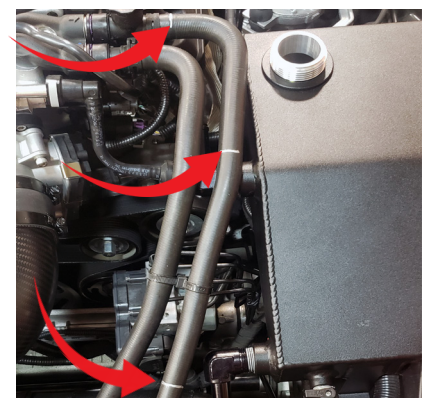
STEP 6

Install the fittings, and clock as shown, using 1/2", 7/8", & 1-1/8", 7/8" and 12" wrenches.



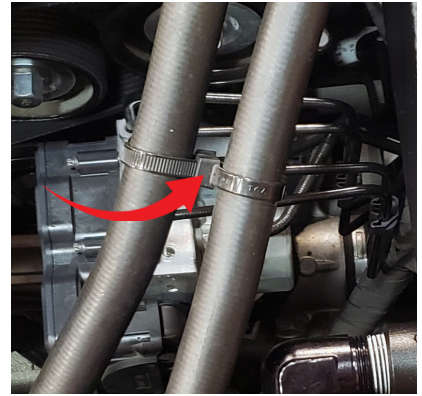
STEP 7

Set the reservoir in place again, using a silver sharpie mark the supercharger's "water outlet" hose where it needs to be cut. (The top portion of the hose will be routed to the top of the reservoir, and the bottom portion of the hose will attach to the lower port of the reservoir in a later step). Remove the reservoir once you have made all the hose marks.



STEP 8

Remove or cut off the OEM zip tie hose tether that holds the 2 intercooler hoses together.



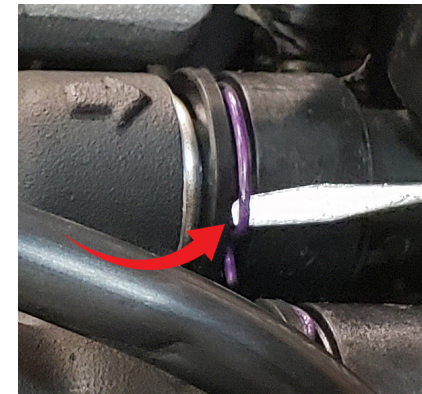
STEP 9

Disconnect hose from upper hose mount on radiator fan shroud, remove upper hose mount.



STEP 10

Remove the purple snap ring from the “outlet” hose connection on the supercharger, once removed you can pull the connector off. (Use rags or a cup placed under the connection to catch any spilled coolant.)



STEP 11

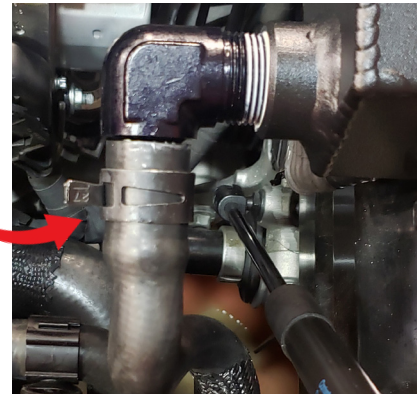
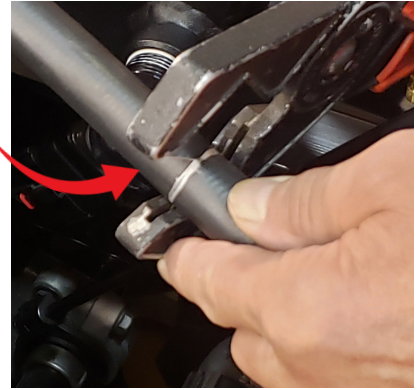
Tilt the hose you just removed down into a drain pan so that you can drain enough coolant so that when you cut the hose at the lower mark you made in step 7, so no coolant spills.

STEP 12

Install the reservoir, use the provided 10mm headed sheet metal screw to attach the front mounting tab, and use the OEM 10mm headed bolt from the vacuum pump bracket to attach the rear mounting tab.

STEP 13

Cut the hose at the lowest sharpie mark you made in step 7, slide on the provided spring clamp. Next apply some silicone spray lube to the hose and lower barb, fully install the hose onto the barb. Clock the hose so that it does not rub against the hood strut. Once positioned correctly, install the spring clamp into position. Fine tune fitting orientation if needed with a 1-1/8 wrench.



STEP 14

Take the upper portion of the hose you cut to a bench and disassemble it.



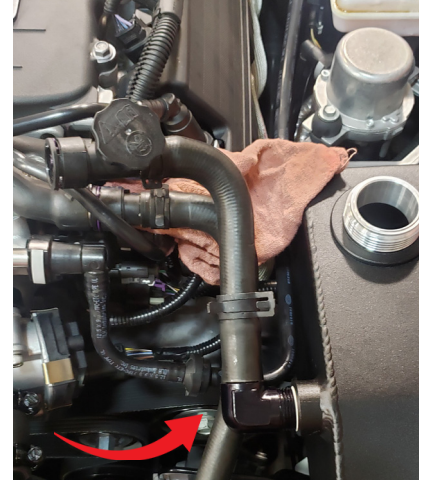
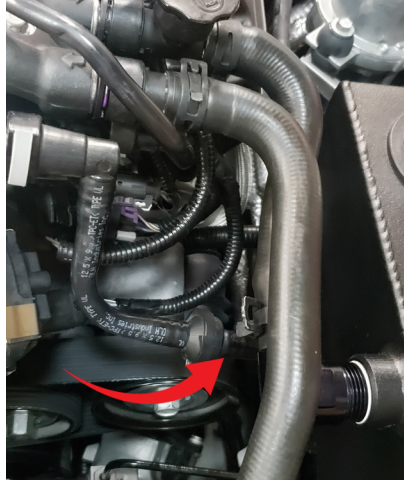
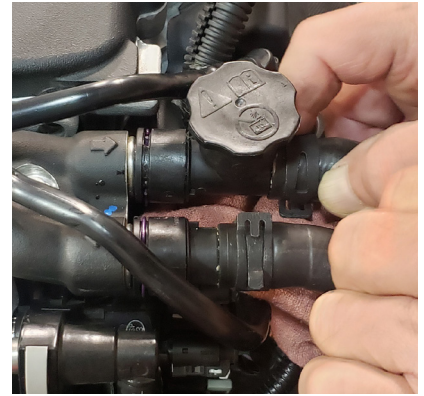
STEP 15

Cut the hose on the marks you made earlier, and then reassemble the hose.



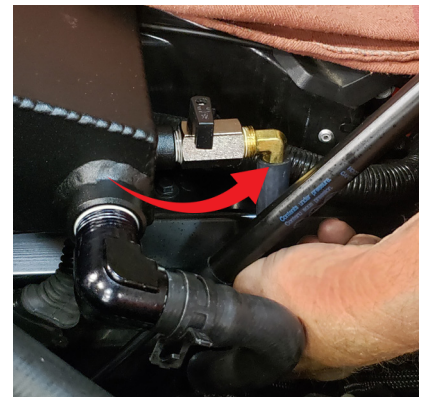
STEP 16

Slide the provided spring clamp onto the hose, spray hose and barb with silicon spray and install the hose onto the upper reservoir port. Clock the hose so that the hose points to the supercharger outlet port. Install the purple “c”clip onto the connector, then slide connector onto the supercharger until you hear it click. Once you are happy with the hose position, install the spring clamp into position. Fine tune fitting orientation if needed with a 1-1/8 wrench.



STEP 17

Install the drain hose onto the brass barb, the hose will then route alongside the frame rail.



STEP 18

Lift or jack up front of vehicle.

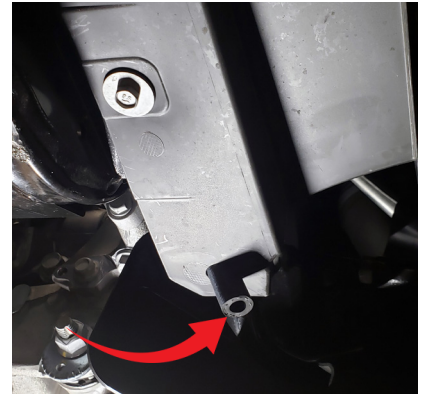
STEP 19

From under vehicle, mark the plastic panel as shown. Next drill a 3/4” hole through the panel. A stepbit works well.



STEP 20

Route the hose through the hole, Leave about 1.5 to 2” of hose sticking out and cut off any extra.



STEP 21

Clean up any spills you may have made from the install then lower the vehicle.

STEP 22

Ensure the drain valve is closed, fill the reservoir with the appropriate coolant. Fill to 1” below bottom of fill neck.

STEP 23

Start engine, intercooler pump will run, ensure you don't have any leaks. Monitor coolant level.

STEP 24

Shut off engine, top off coolant level if needed. Then install the reservoir cap.



Congratulations, the installation of your new Lingenfelter C7 Intercooler Reservoir Tank is complete!

NOTE The extra oetiker clamps and hose joiner are supplied for aftermarket supercharger setups or custom installs.



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