

ZL1 Camaro Intercooler Fluid Reservoir Kit



PN: L300152012

Parts List

LPE Intercooler Fluid Reservoir Kit (PN: L300152012)

#	Description	Part number
1	High capacity intercooler reservoir	RFB10155014
1	Pressure Cap, 16 psi	L300170016
1	90 degree heater hose	9820
3	Constant tension clamp, for 15/16" OD hose	7329K15
1	22.6mm Oetiker clamp	52545K72
1	Lingenfelter decal	L920010000
1	Instructions	N/A

Tools & Materials Required

- 7/8" open-ended wrench
- Hose cutter
- Teflon thread sealant (liquid)
- Razor blade (or equivalent)
- Constant tension clamp pliers (or equivalent)
- Spring-loaded hose clamp pliers (or equivalent)
- Silicone lubricant
- Coolant- 50/50 DEX-COOL antifreeze and tap water (distilled water can be substituted for tap water)

Additional Required Components

#	Description	Part number
1	ZL1 Camaro Air Intake Kit	L650162012

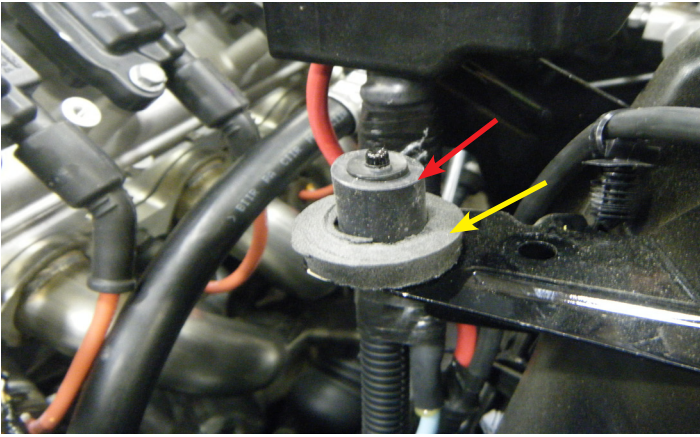
Thank you for purchasing the Lingenfelter Performance Engineering (LPE) Intercooler fluid reservoir Kit for the ZL1 Camaro. The ZL1 Camaro does not come from the factory with an intercooler fluid reservoir, which means that the only available fluid is the fluid running through the lines. The LPE intercooler fluid reservoir is capable of storing up to an additional four liters of fluid for the system. In racing applications, the fluid in the intercooler fluid reservoir can be replaced with ice to help cool the system between runs.

Read the entire instruction manual before beginning installation. Many of the stock parts will be used in reassembly.

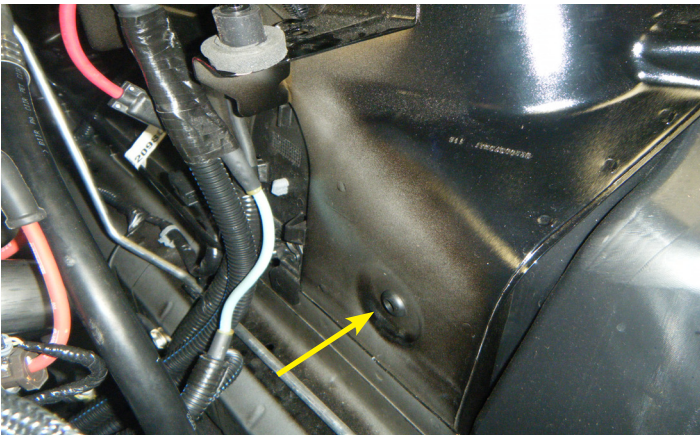
When referencing the side of the vehicle, the driver side of the vehicle is considered the left side and the passenger side of the vehicle is considered the right side of the vehicle.

Due to where the LPE intercooler fluid reservoir is mounted on the vehicle, the installation of this kit requires the installation of an aftermarket airbox. This reservoir was designed to fit with the LPE ZL1 Camaro Air Intake Kit (L650162012). LPE cannot verify that this reservoir will fit with any other aftermarket air intake kits.

These instructions assume that you have already removed the stock airbox, as well as the charge air cooler coolant hoses. The LPE intercooler fluid reservoir can be installed after the LPE ZL1 Camaro Air Intake Kit (L650162012) is installed, but LPE recommends installing the intercooler fluid reservoir before the air intake kit. Installing the intercooler fluid reservoir first will give you more room for installation.



1. Install the stud adapter (red arrow) onto the rear airbox stud. Remove the backing paper off of the foam mounting ring (yellow arrow) and slide the ring over the stud adapter.



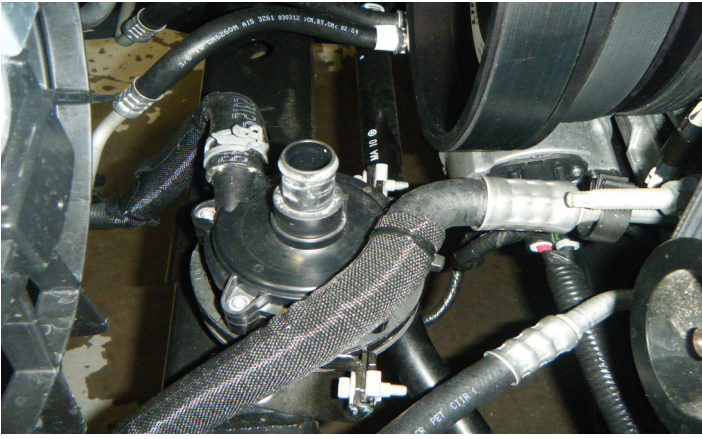
2. Install the grommet into the hole forward and below the rear airbox stud.



3. Using Teflon thread sealant and a 7/8" wrench, install the 90 degree fitting into the bottom of the coolant reservoir. The open end of the 90 degree fitting should be pointed towards the front of the vehicle .



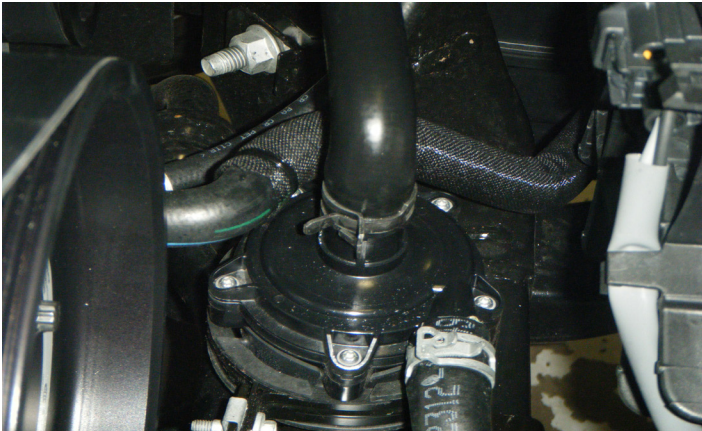
4. Install the coolant reservoir onto both grommets. Make sure that the fitting which was installed in the previous step is pointing directly towards the front of the vehicle, as shown in the adjacent illustration.



5. Locate the supercharger coolant pump, which can be found just below and in front of the damper. This pump will be connected to the coolant reservoir in the following steps.



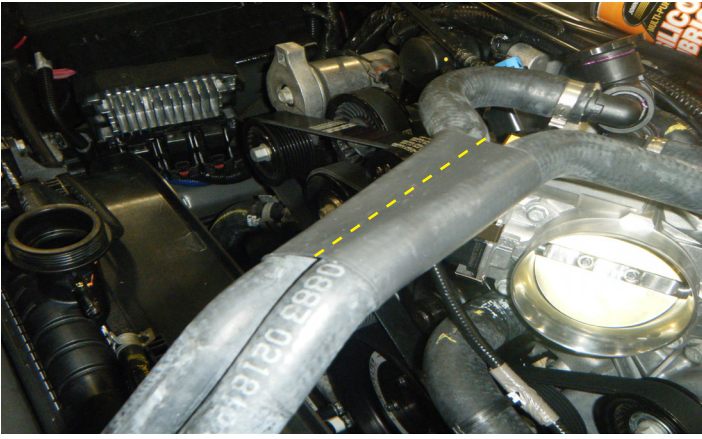
6. Before the LPE supplied 90 degree hose can be installed, the short part of the hose after the 90 degree bend must be cut down so that it is just long enough for the constant tension clamp to secure the hose to the pump. Use a hose cutter to cut the hose.



7. Slide the constant tension clamp onto the long end of the 90 degree hose, just before the bend. Next, use silicone lubricant on both the inside and outside on the short end of the 90 degree hose. This allows the hose to slide onto the pump fitting and for the constant tension clamp to slide around the 90 degree bend on the hose and into position. Finally, use a set of constant tension clamp pliers (or equivalent) to loosen the clamp so that it can be positioned to secure the hose to the pump.

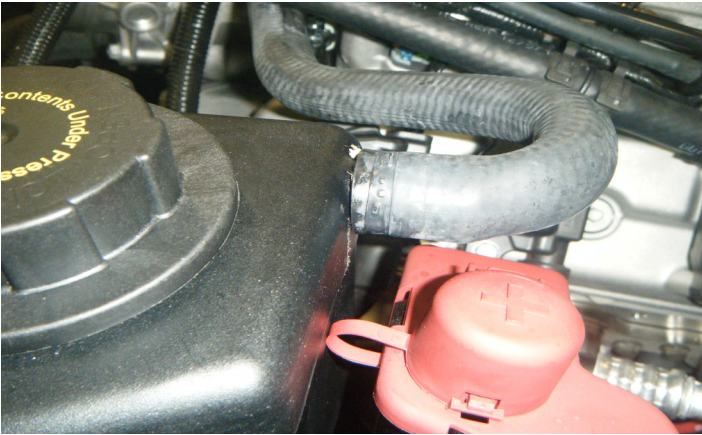


8. Run the hose that was connected to the coolant pump in the previous step to the lower fitting on the coolant reservoir. Mark the length required for the hose to reach the lower coolant reservoir fitting while maintaining a smooth arc in the hose to prevent kinking. Cut the hose to length and apply lubricant to both the inside and outside of the hose. Finally, attach the hose to the fitting and secure the hose with a constant tension clamp using constant tension clamp pliers (or equivalent).

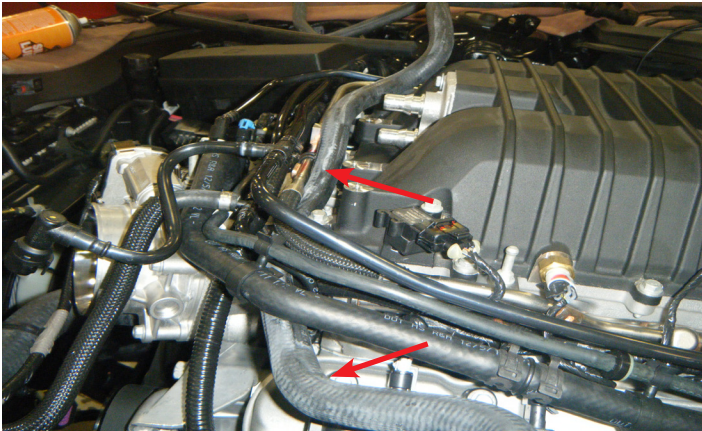


9. The stock charge air cooler coolant hoses are held together by two pieces of tape. The hoses need to be separated so that one can be modified later. Using a razor blade (or equivalent), cut the tape and separate the hoses, as shown by the dashed yellow line in the adjacent illustration.

CAUTION: Take care not to cut the stock hoses with the razor blade.



10. Take the shorter hose that was attached to the lower fitting on the front of the supercharger and remove the 90 degree fitting from the end. Push that same end of the hose onto the upper nipple on the back side of the coolant reservoir, but do not secure the hose to the nipple yet. Make sure to hold onto the 90 degree fitting as it will be used later.



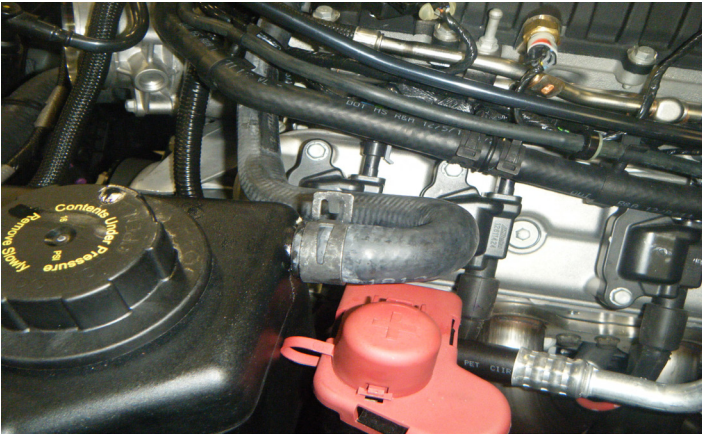
11. Route the hose beneath the other hoses and towards the front of the supercharger, as shown in the adjacent illustration.



12. Connect the 90 degree fitting (which was removed in step 11) to the lower quick connect fitting on the supercharger. The 90 degree fitting should be pointing towards the driver side of the vehicle. Next, determine the distance of hose required to comfortably reach the 90 degree fitting. Finally, cut the hose to the correct length.



13. After applying silicone lubricant to the inside of the hose, attach the hose to the 90 degree fitting. Using a set of Oeticker clamp pliers (or equivalent), secure the hose to the fitting with the supplied Oetiker clamp.



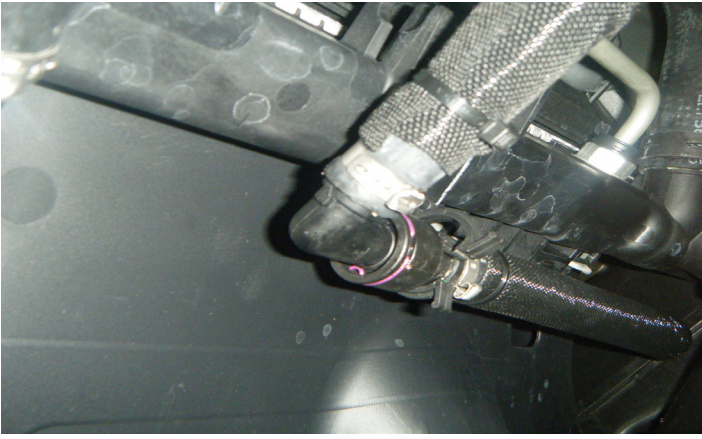
14. Pull the other end of the hose off of the coolant reservoir and slide a constant tension clamp onto the hose. After applying silicone lubricant to the inside and outside of the hose, push the hose onto the rear coolant reservoir nipple, and use a set of constant tension clamp pliers (or equivalent) to move the constant tension clamp into position.



15. Reconnect the stock upper charge air cooler coolant hose to the upper quick connect fitting on the supercharger.



16. Reinstall the upper hose into the retaining ring located behind the passenger side radiator fan.



17. Reinstall the end of the hose to the fitting just below the radiator support.



18. Add coolant (should be a 50/50 mixture of DEX-COOL antifreeze and tap water or distilled water) into the reservoir. Fill the reservoir until the fluid reaches the parting line on the outside of the reservoir. The coolant reservoir has a fluid capacity of roughly 4 liters. Install the 16 psi pressure cap (PN: L300170016).

**Installation of the LPE ZL1 Camaro Intercooler
Fluid Reservoir Kit is now complete.**

For additional product installation information and technical support, contact LPE or your LPE products distributor. You can also find technical support and usage discussions regarding this product and many other LPE products in our Internet forums:

<http://www.lingenfelter.com/LPEforumfiles>

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