



2017-up Camaro ZL1 Cold Air Intake System Installation Instructions

For part # 10161056 10161057

## 2017-up Camaro ZL1 Cold Air Intake System Parts List



In the trunk, remove the battery access panel on the passenger side vertical wall. Using a 10 mm wrench, disconnect the negative terminal block. See ill. 1.

Disconnect the breather tube using your index finger. Fully depress the push release on the back side of the breather fitting, then pull the fitting outward to disengage it. See ill. 2.

Do not disconnect the MAF sensor. Use a pry tool to disengage the loom retainer clip just outboard of the MAF sensor. While gently prying upwards, use your other hand to pull upwards on the clip. See ill. 3.

Use a T20 torx driver to remove the two screws retaining the MAF sensor to the stock intake housing. Note these screws will **not** be re-used with the Rotofab system. Carefully pull the sensor straight out of the housing. Do not allow anything to come in contact with the small openings on the sensor. Place the sensor as shown in ill. 4 for safe temporary storage until re-installation.

Use an 8mm socket/driver to loosen the two hose clamps on the stock inlet elbow. Remove the inlet elbow by first disengaging the throttle body, then the air box assembly.

Use a pry tool to disengage the cable tie retainer shown in ill 5. Warning-the ear of the air box can easily break when prying against it. For better working access, use both hands to pull upwards on the air box to disengage it from it's mounting grommets. Once the cable tie is disengaged, remove the air box assembly from the car. One or more of the three mounting grommmets may disengage when removing the air box. The front grommet may still be attached to the front mounting stud on the air box. Be sure all three air box mounting grommets are back in their respective mounting holes and fully seated.











Position a supplied #17 cable tie just above the existing retainer going around the two hoses and the A/C line as shown in ill. 6. DO NOT PULL THE TIE TIGHTLY! The cable tie should tighten enough to secure the lines away from the pulley while retaining a gap between the hoses as shown. These hoses must be able to move for motor rock. If overtightened, carefully cut the tie and use another.

Use a #17 cable tie just before the protective sheath to secure the two lines shown in ill. 7. Do not pull tight. Leave appr. 1/8" gap between the two lines. Snip the end once secured.

On the hood, use a 10mm driver to remove the 2 bolts shown in ill. 8. Replace the bolts with the #16 M6 black buttonhead flanged bolts. Use a 4mm hex wrench to secure.

Remove the small breather fitting from the stock inlet elbow shown in ill. 9. The small clamp can be removed by using a small screwdriver to pry up on the end or tail of the clamp. Once you have access to the tail, grasp with sidecuts or pliers to pull upwards in a twisting motion. Set the fitting aside for re-use.

Locate the #1 air box assembly, the #2 MAF sensor housing and the five #14 10-32x1/2" philips screws. Insert the MAF housing through the large hole in the air box such that the larger 6" diameter clamping surface is on the inside of the air box. When viewing the air box as shown in ill. 10, the MAF sensor mounting block should be aligned with the bolt hole in approximately the 10 o'clock position. BE CERTAIN THE MAF BLOCK IS IN THIS POSITION. Insert the screws through the air box starting all five screws in the threaded inserts of the MAF housing. Once all are started, work back and forth to draw the MAF housing tight to the air box. Tighten all five screws.

Locate the #13 bulb seal 12 1/8" long. Starting from the bottom as shown in ill. 11, install it on the large radius. Push firmly to be sure it is completely seated.













Locate the #5 4 5/8" black hump hose coupler and one of the #7 110-130 mm hose clamps. (largest clamp) Slide the clamp over the end of the MAF housing with the head pointing upwards as shown in ill. 12. Fully engage the hump hose coupler onto the MAF sensor housing. Align the clamp head with the sensor mounting block. Tighten. Do not overtighten. IMPORTANT-with all coupler connections, be sure there is coupler material on both sides of the clamp band. Take extra care to inspect the bottom side of all clamp joints to be sure of this as well. Don't clamp flush with the end of the hose as the crush within the hose aids in hose retention.

Locate the #10 small 90 degree fitting, #11 3/8" OD x 1 11/16" long fuel hose and the #9 5/8" hose clamp. You will also need the breather adapter previously removed from the stock inlet elbow. Assemble as shown in ill. 13 making sure the fittings fully engage the hose. Note the 90 degree fitting doesn't require a hose clamp. Use a 1/4" socket to tighten the hose clamp.

Locate the #3 inlet elbow. Install the breather assembly into the brass fitting on the elbow. Note the fitting is NPT (tapered pipe thread) and not designed to bottom out. Once hand tight, tighten one more revolution and line up with the alignment mark on the tube.

Locate the #6 4-4 1/4" step hose and one of the #8 100-120mm hose clamps.(smaller clamp) Slide the hose clamp over the throttle body with head facing upwards as shown in ill. 15. Fully engage the step hose onto the throttle body. Locate the hose clamp as shown and tighten. Be sure to check the bottom side to be sure the hose clamp is properly located. Do not overtighten.

Locate the #1 air box assembly. apply a small amount of lubricant around the beveled area of all three mounting studs on the air box. Set the air box in place in the car with all three studs resting on top of the respective mounting brackets. Using both hands as shown in ill. 16, press firmly and uniformly to seat the studs into the grommets simultaneously.











hose, #3 inlet elbow, and 2 hose clamps should be ready to drop into the car as one unit. Place a shop rag in the area shown to prevent scratching of the CAI components.

Refer to ill. 18 and 19 for air box assembly installation. Drop air box into place, making sure the air box tab (red arrow) clears the factory mounting support (yellow arrow). Then push the inlet elbow straight down onto the throttle body step hose, folding the top of the hose down and engaging the bottom of the hose (see ill. 19) Use a pick tool or pocket screwdriver to work the hose onto the elbow, then press inward firmly to fully engage the step hose. After elbow is fully engaged into the step hose, seat air box mounting studs into the rubber mounting grommets in this order: Front grommet, lower rear grommet, and lastly, the upper rear grommet. Once the air box is fully seated, check for proper allignment of the inlet elbow and tighten the remaining 2 hose clamps following the same clamping instructions as the first 2 clamps Inspect the bottom of all 4 hose clamps to ensure proper engagement all the way around.







Re-connect the breather fitting by engaging and pushing inward until you feel it "click" into position. Pull outward to ensure it is locked into place. Remove the shop rag at this time.

Locate the #15 MAF screws M4x.7x8mm long. Carefully slide the MAF sensor into the mounting block. Start the top screw, then the lower screw. Insert your philips screwdriver under the breather hose as shown in ill. 18 to achieve proper

alignment with the screw. Tighten both screws securely.



Locate the #12 hood seal 29 1/8" long. Starting from the front, engage the top edge of the air box and continue to work towards the opposite corner. Press down firmly to ensure the seal is fully seated through it's entire length. Locate the #4 air filter. Orient the clamp so the screw head will be facing upwards when located as shown in ill. 20. Engage the filter onto the clamping surface until the filter flange is contacting the top air box seal. Rotate the filter as necessary to clear the chassis and ensure the filter is not placing excessive downward pressure on the inner fender.(It may be resting on the inner fender.) Use an 8mm driver to tighten the filter clamp.

Check all the way around each hose clamp to ensure proper seating of the hose clamp. Check to be sure all hose clamps are tight. Be sure the shop rag has been moved away from the engine compartment.

Re-connect the negative terminal on the battery and install the battery access panel.

Congratulations, your install is now complete! All clamps should be checked for tightness after a few drive cycles and periodically thereafter. Inspect hose clamps for tightness at each oil change. Inspect the filter approximately every third oil changemore often in dusty climates.



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