Installation instructions for the Lingenfelter Performance Engineering (LPE) air intake system for LT1 V-8 equipped 1993 Camaros and Firebirds (#LN0040), 50 state emissions legal (E.O. D-333-15):

Included in the LPE intake system:

- LPE plastic air intake
- K&N filter
- plastic block-off plate
- three plastic fasteners
- 3M Dual Lock hook and loop tape (used for Firebird installations only)

Tools you will need:

- blade screwdriver
- Phillips-head screwdriver (for Firebird installations only)
- 5/16" & 10 mm sockets and ratchet
- WD40 or similar lubricant
- drill and 5/16" bit

Instructions:

- Read instructions completely before beginning installation.
- Installation should take less than one hour with the proper tools.
- As you remove the stock components, pay careful attention to how things were attached or located. In many cases, the components will be reinstalled in the same way as they were removed.
- NOTE - take care when working on this vehicle to stay clear of the electric fans - they may turn on at any time.
- Set parking brake and open hood. If you have been using the car, allow it to cool before beginning installation.
- The original plastic intake is mounted to the radiator shroud with a two piece plastic fastener. Pry the center piece out with the screwdriver and the other part of the fastener should come out easily. Save this fastener.
- Using the screwdriver, loosen the worm-gear clamp near the air filter box. It should take roughly six (6) complete turns of the screw to loosen the clamps enough (make sure that the threads are catching and loosening the clamp and not backing out the screw).
- Using the blade screwdriver, pry loose the plastic collar on the rubber elbow that connects to the stock plastic intake.
- Disconnect the A.I.R. pump hose from the back of the original intake. To do so, loosen the plastic collar by carefully prying under the plastic tabs (pry between the bottom and second from the bottom parts). After you have loosened the plastic collar, slip it down the tube. Now work the tube loose from the plastic intake.
- Pull up on the air box. Work the air box loose from the plastic intake.
- Remove the air intake from the ribbed rubber intake elbow (leave the elbow mounted to the vehicle).
- In the space below where the stock air filter box was mounted, you will see a small black plastic hollow air intake box that fed air to the air filter assembly. On Firebirds, the headlamp door module is the device with wires leading to it that is mounted to this hollow air intake.
- The hollow box is secured to the vehicle by a plastic fastener. To remove the box, pry it out by slipping a blade screw-driver underneath it (between the box and the metal of the vehicle, not under the plastic fastener).
- On Firebirds, the headlight control module is attached to the hollow air box you have just removed. It is secured by two plastic fasteners with Phillips head screws in them. Remove these two fasteners by pushing up on the fastener to start the threads and then unscrew the screw, or pry the fastener out with a screwdriver. Later, you will secure the module down with the hook and loop tape provided.
- You will be installing the K&N air filter from under the car (you should not have to raise the vehicle). To do so you will need to remove some fasteners that secure the plastic under-tray to the front, left corner of the vehicle (under where the air filter assembly was and under where the left side headlight is located). First remove the last two bolts that secure the lower air deflector to the body (remove the far left two bolts). The bolts have 8 mm heads and are mounted perpendicular to the ground (not the ones mounted at an angle to the ground).
- Now you need to remove the seven remaining bolts that secure this front, left panel. These bolts have 10 mm heads and are also mounted perpendicular to the ground. You do not need to remove the plastic shroud - just remove the bolts that support it.

- Remove the K&N filter from the packaging. The filter is pre-oiled and is ready to install in the vehicle. Remove the worm-gear clamp from the filter intake (and save to reinstall later).
- You should now be able to pull down on the far left hand corner of the plastic panel (the edge closest to the tire) and slip the K&N filter into the space. The 4" circular inlet of the filter should fit up through the existing hole in the body and be visible from inside the engine compartment. You may now replace all of the bolts that secured the plastic under-tray.
- Place the plastic block-off plate over the air filter and slip the far corner under the wiring harness. The smooth side of the block-off plate should be facing up (textured side should not be visible). The plastic block-off plate should rest flush against the body of the vehicle. The K&N filter neck should stick up through the block-off plate. Put the worm-gear clamp back onto the air filter - positioning the gear mechanism on the side of the filter closest to the front of the car.
- Place a thin film of WD40 on the inside of the air filter neck. Test fit the LPE air intake in the air filter to make sure the block-off plate is positioned correctly - lining up the mounting hole on the mounting tab of the intake with the mounting hole on the radiator shroud. Make sure the LPE air intake is pushed down into the air filter. You may need to push from underneath the car or have someone help you. Once you are sure the system is properly located and that the hood will close properly, use the existing holes in the plate as a guide to mark the hole locations with a scribe or pen. Now remove the LPE air intake and drill holes in the metal of the vehicle. When drilling, be careful that you do not drill into any sensors or harnesses. Secure the plastic block-off plate to the car using the included plastic fasteners.
- NOTE - in some case, especially on Camaros, the LPE air intake may touch the sound deadening material found on the underside of the hood - this is normal. If the intake is properly located and positioned in the filter, your hood should close properly.
- On Firebirds - using the supplied hook and loop tape - mount the headlight door module to the horizontal subframe area on top of and next to the block off plate. Leave the two pieces of hook and loop tape fastened to each other. Remove the tape backing from one side and attach the tape along one edge of the module. Test mount the module leaving the backing tape in place (the best fit will probably be to have the tape along the edge that is closest to the front of the car and the headlights) and then remove the backing tape and mount the module.
- Now check inside the air filter to make sure no debris has fallen into the filter. If any material has fallen into the filter, remove it by hand or with a vacuum cleaner.
- Reinstall the LPE plastic intake - slipping the intake into the rubber elbow. Tighten the plastic clamp onto the intake (make sure it is fully tightened and will not let air to get by) and tighten the worm-gear clamp over the K&N filter. It may be easiest to use the 5/16th socket to tighten the worm-gear clamp that is located on the filter. Reinstall the two piece plastic fastener that secures the air intake to the radiator shroud. If the original fastener is damaged, use one of the fasteners provided.
- Install the rubber A.I.R. pump hose on the LPE intake and tighten the plastic clamp to secure it in place.
- You have completed the installation. On a stock engine, the LPE air intake system should provide an additional 10 to 12 horsepower. On our 440 horsepower 383 CID engine package or other highly modified engines, the LPE air intake can provide over 25 additional horsepower.

Notes:

The K&N filter provided with this kit is a serviceable filter - you do not need to replace it. Follow the service instructions provided by K&N. You may want to order the air filter service kit - part # 99-5000. This air intake system is designed to provide increased air flow and horsepower to stock as well as heavily modified vehicles. Although the filter has been located in a protected area, it is now mounted several inches lower than the original filter. In order to avoid possible engine damage, do not drive through water that is higher than the bottom of the front of the car's body.

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