



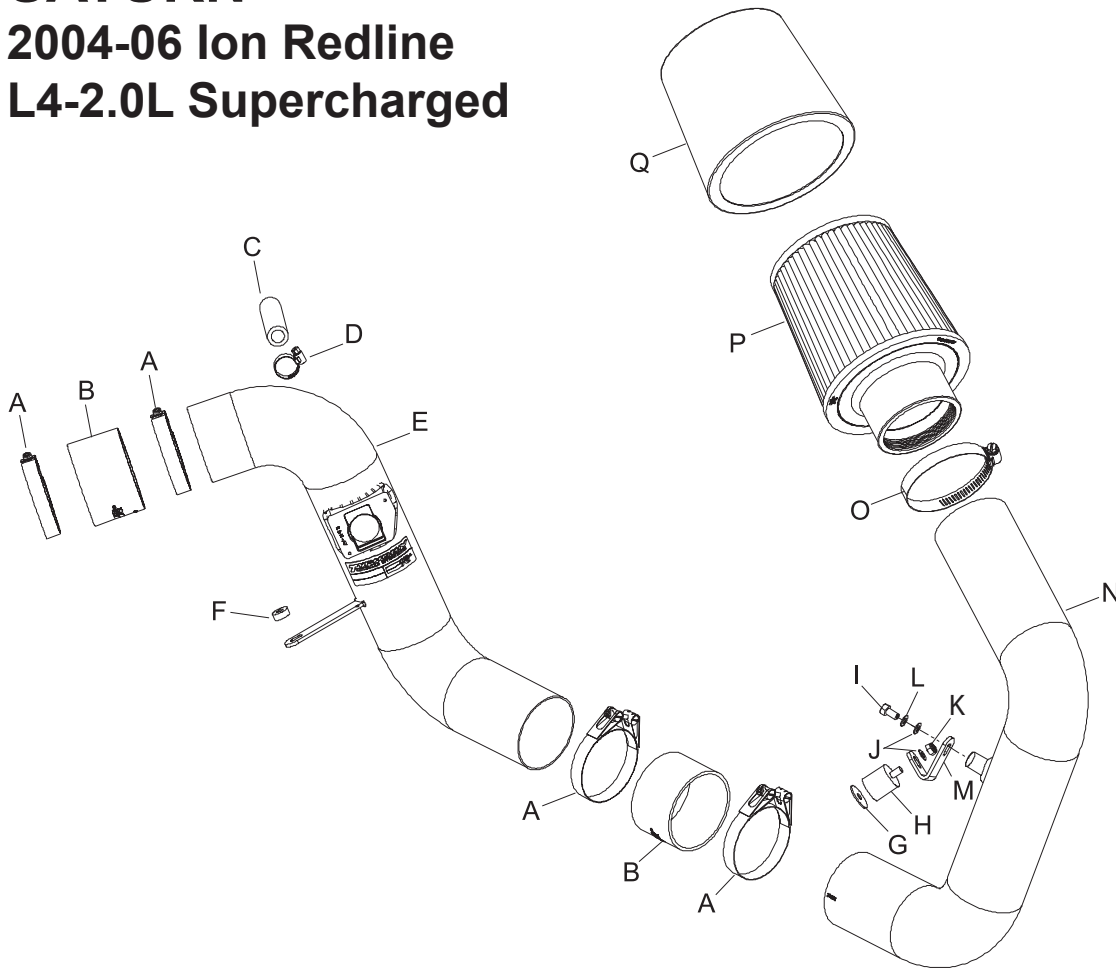
# TYPHOON INTAKE SYSTEMS

INTAKE SYSTEMS FOR VEHICLES LISTED ARE 50 STATE LEGAL. SEE KNFILTERS.COM FOR CARB STATUS ON EACH PART FOR A SPECIFIC VEHICLE.

## INSTALLATION INSTRUCTIONS

**69-8431TP**  
**SATURN**  
**2004-06 Ion Redline**  
**L4-2.0L Supercharged**

- TOOLS NEEDED:**
- Flat Blade Screwdriver
  - Phillips Screwdriver
  - 10mm End Wrench
  - Ratchet Extension
  - 5.5mm Socket
  - 7mm Socket
  - 10mm Socket
  - 13mm Deep Socket



### PARTS LIST:

Description	Qty.	Part #
A Hose Clamp #44	4	08560
B Hose; 3" id X 2" l, Black, Silicone	2	08434
C Hose; 1/2" id X 3" l Silicone	1	087028
D Hose Clamp #006 Mini	1	08407
E Tube; Throttle Body	1	27500
F Spacer, .250" id X .250 Thk., AL	1	06555
G Washer, 1" Fender	1	08160
H Stud; 6mm, M/F	1	02033
I Bolt, M6-1.00, 12mm L, Hex	1	07727
J Washer, 1/4" Id X 5/8" OD	2	08275
K Nut, 6mm Nylock	1	07512
L Washer; 1/4" Lock, ZN	1	08198
M Bracket; Angle, Stl, FB/PC	1	010074
N Tube; Cold-air Extension	1	27501
O Hose Clamp; #48	1	08601
P Air Filter	1	RU-4990
Q Drycharger® Wrap	1	RX-4990DK

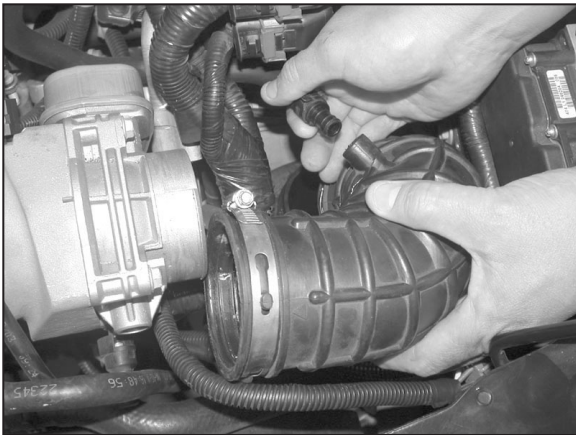
**WARNING:** The K&N® Drycharger® included with this kit must be installed on the K&N® air filter when used with this K&N® cold air intake system. The K&N® cold air intake system a performance product that can be used safely during mild weather conditions. During harsh and inclement weather conditions, you must convert your cold air intake system to a short ram configuration, or return your vehicle to the stock OEM air box and intake tract configuration. Failure to follow these instructions can void your warranty.

**NOTE: FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS AND NOT USING THE PROVIDED HARDWARE MAY DAMAGE THE INTAKE TUBE, THROTTLE BODY AND ENGINE.**

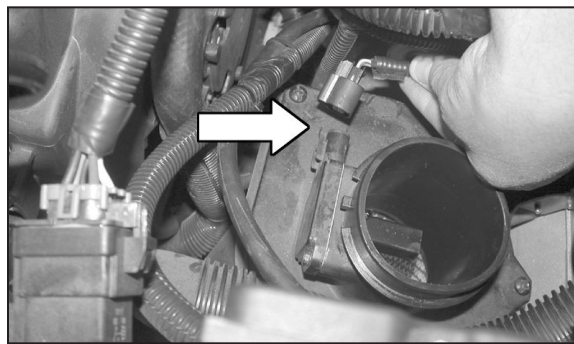
### TO START:

1. Turn off the ignition and disconnect the negative battery cable.

**NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied with your owner's manual. In the event your vehicles' anti-theft code cannot be recovered, contact an authorized dealership to obtain your vehicles anti-theft code.**



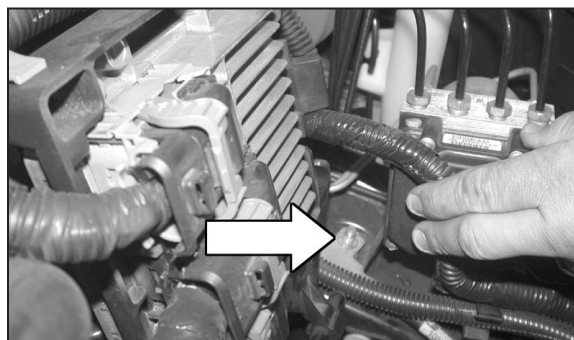
2. Loosen the stock hose clamps and pull the stock hose off the throttle body and the air cleaner, then, disconnect the crank case vent hose to remove the stock intake hose.



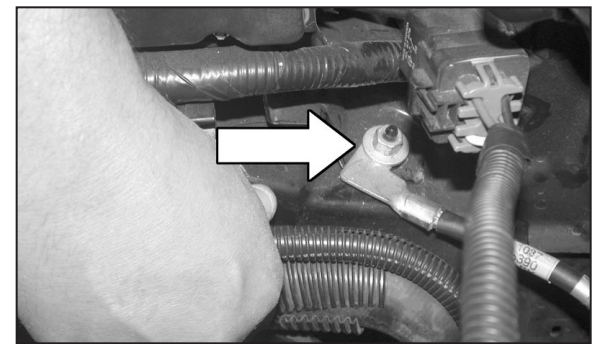
3. Disconnect the mass air sensor electrical connection as shown.



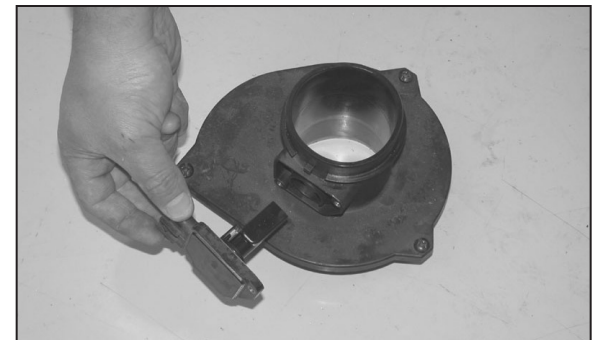
4. Loosen the three screws to remove the stock air cleaner cover as shown.



5. Remove the ground wire from the rear bracket on the ABS pump as shown.



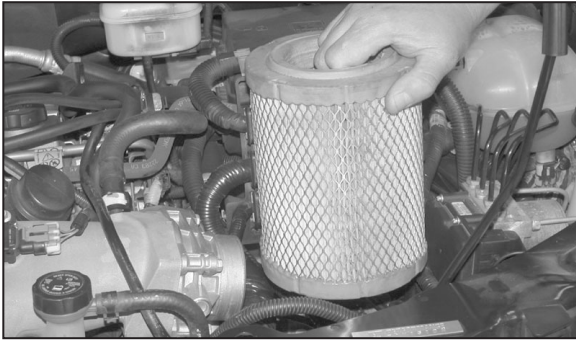
6. Secure the ground wire to the bracket on the front of the ABS pump as shown.



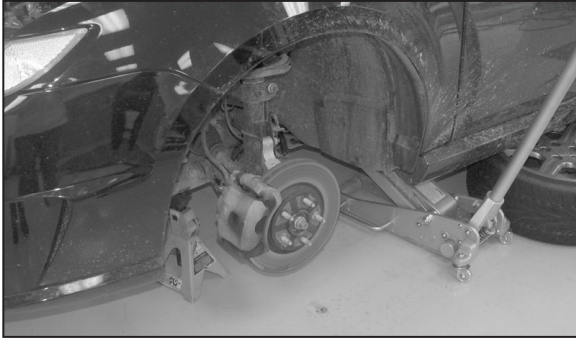
7. Remove the mass air sensor from the air cleaner cover as shown.



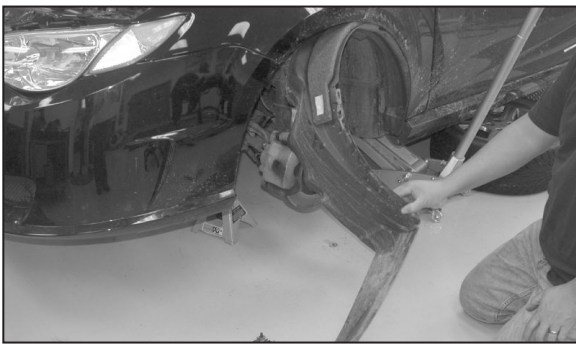
8. Remove one of the stock screws as shown because this will be re-used at a later time.



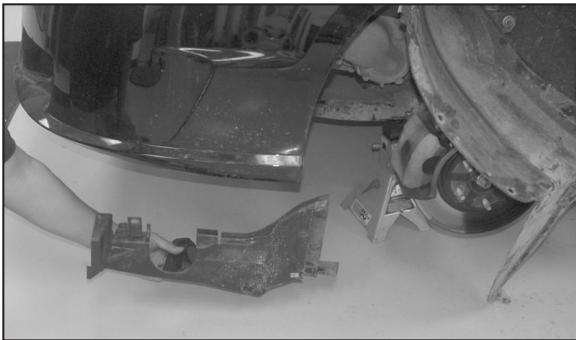
9. Remove the air filter from the lower air cleaner assembly as shown.



10. Jack the vehicle up and support it with jack stands, then, remove the front driver side tire as shown.



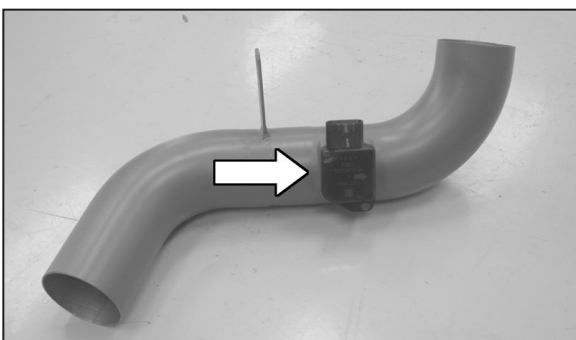
11. Remove the eight plastic rivets and two screws, then lower the inner fender valance downward as shown.



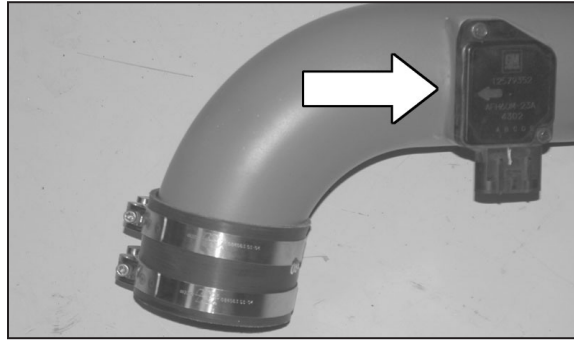
12. Remove the four plastic rivets, then, remove the plastic valance as shown.



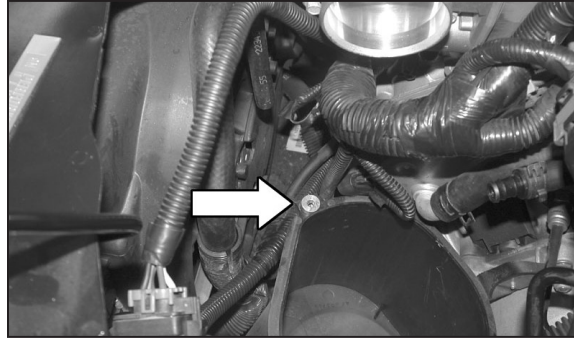
13. Loosen the hose clamp that secures the air inlet duct to the lower air cleaner assembly, then, loosen and remove the bolt that secures the air inlet duct and remove the air inlet duct as shown.  
**NOTE: K&N Engineering, Inc., recommends that customers do not discard factory air intake.**



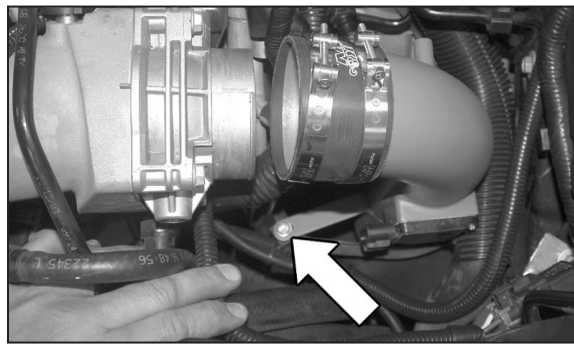
14. Install the mass air sensor into the K&N® short ram tube using the stock bolts removed in step five.



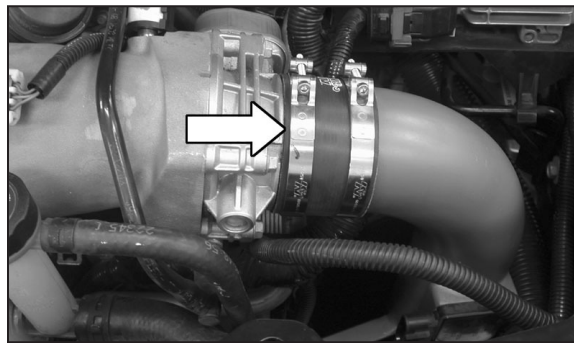
15. Install the provided silicone hose and hose clamps onto the K&N® short ram tube as shown.



16. Place the provided spacer onto the front mounting point of the original air cleaner cover as shown.



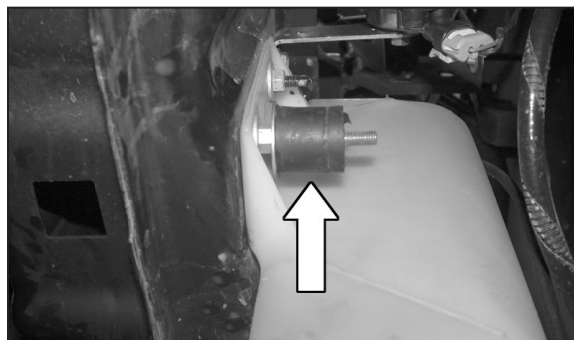
17. Slide the tube through the inlet of the lower air cleaner assembly, then, line up the bracket with the spacer/threaded hole and secure with the bolt removed in step 8.



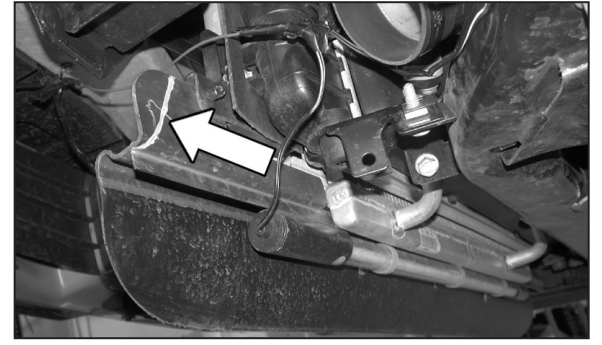
18. Slide the silicone hose onto the throttle body, but do not tighten at this time.



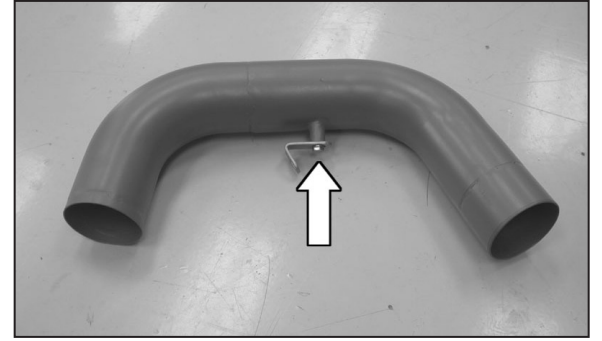
19. From underneath the vehicle install the silicone hose and hose clamps onto the K&N® short ram tube as shown.



20. Install the provided washer and the provided rubber mounted stud onto the lower bolt on the windshield wiper reservoir as shown.



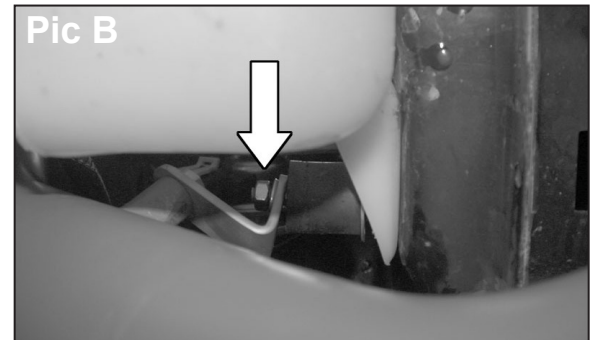
21. Trim the top side of the air deflector for tube clearance if needed.



22. Install the angle bracket onto the K&N® cold air tube in the orientation shown, but do not tighten completely at this time.



23. From underneath the vehicle slide the K&N® cold air tube up into the inner fender as shown.



24. Slide the K&N® cold air tube into the silicone hose on the K&N® short ram tube (Pic. A) and line up the bracket with the rubber mounted stud (Pic. B) and secure with the provided hardware as shown.



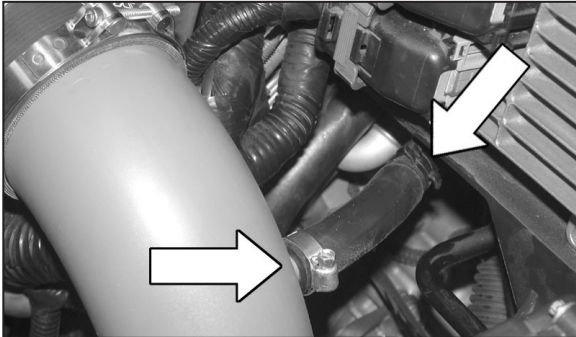
25. Slide the K&N® Drycharger® onto the K&N® air filter as shown.

**NOTE: Please be aware the Drycharger® is water repellent, not water proof. Depending on conditions and usage the water repellent treatment is good for 1 to 2 years. See the parts list to reorder a new Drycharger® if necessary.**



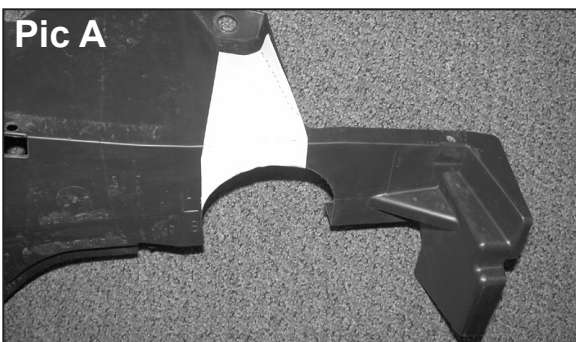
26. From underneath the vehicle slide the K&N® air filter onto the K&N® intake tube as shown.

27. Adjust everything for best fit and clearance, then tighten all hose clamps and hardware.



28. Slide the provided hose and hose clamp onto the original crank case vent hose, then, connect the other end to the vent on the K&N® short ram tube and secure with the provided hose clamp as shown.

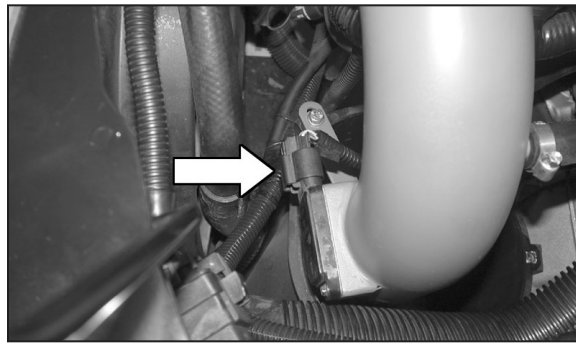
29. Reverse the removal process and reinstall the inner fender valance using the original eight plastic rivets and two screws.



30. Cut out the provided template and place onto the plastic valance and mark the trim lines (Pic. A) then cut the valance as shown, (Pic. B).

31. Re-install the large piece that was trimmed in step 30.

32. Reverse the removal process and reinstall the front tire and torque to factory specs.



33. Reconnect the mass air sensor electrical connection as shown.



34. Reconnect the vehicle's negative battery cable. Double check to make sure everything is tight and properly positioned before starting the vehicle.

35. The C.A.R.B. exemption sticker, (attached), must be visible under the hood so that an emissions inspector can see it when the vehicle is required to be tested for emissions. California requires testing every two years, other states may vary.

36. It will be necessary for all K&N® high flow intake systems to be checked periodically for realignment, clearance and tightening of all connections. Failure to follow the above instructions or proper maintenance may void warranty.

#### ROAD TESTING:

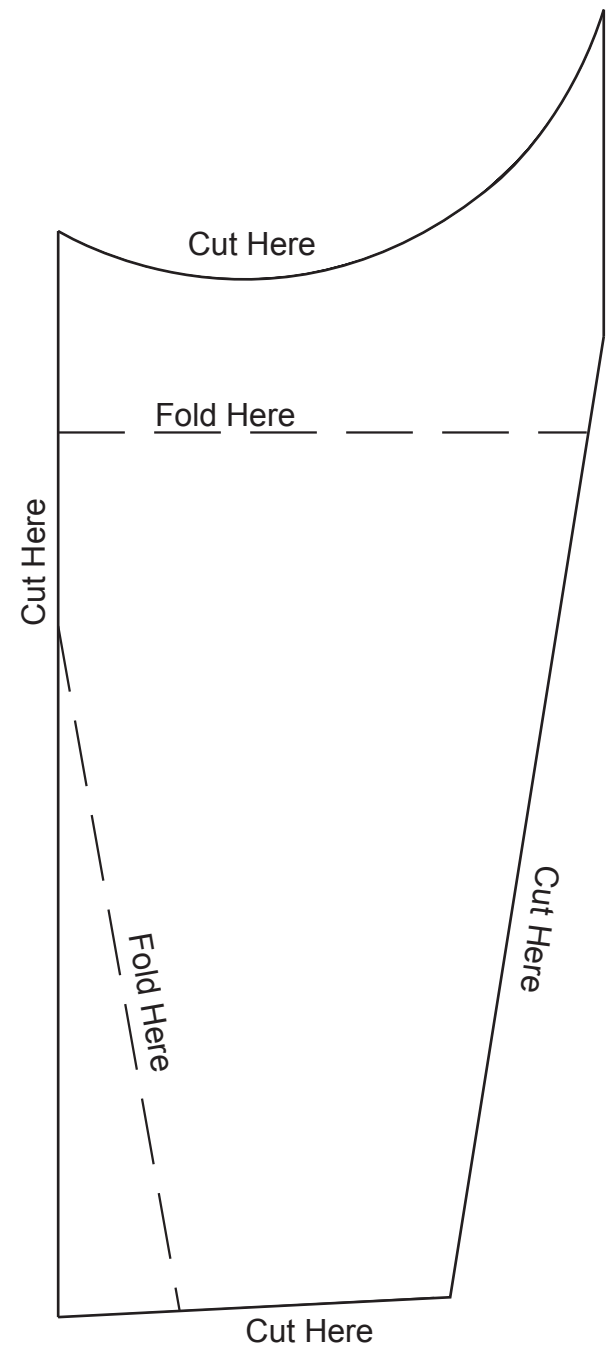
1. Start the engine with the transmission in neutral or park, and the parking brake engaged. Listen for air leaks or odd noises. For air leaks secure hoses and connections. For odd noises, find cause and repair before proceeding. This kit will function identically to the factory system except for being louder and much more responsive.

2. Test drive the vehicle. Listen for odd noises or rattles and fix as necessary.

3. If road test is fine, you can now enjoy the added power and performance from your kit.

4. K&N Engineering, Inc., requires cleaning the intake system's air filter element every 100,000 miles. When used in dusty or off-road environments, our filters will require cleaning more often. We recommend that you visually inspect your filter once every 25,000 miles to determine if the screen is still visible. When the screen is no longer visible some place on the filter element, it is time to clean it. To clean and re-oil, purchase our filter Recharger® service kit, part number 99-5050 or 99-5000 and follow the easy instructions.

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\* FREE K&N® decal To register your warranty, please see us online at [knfilters.com/register](http://knfilters.com/register). FREE K&N® decal \*