



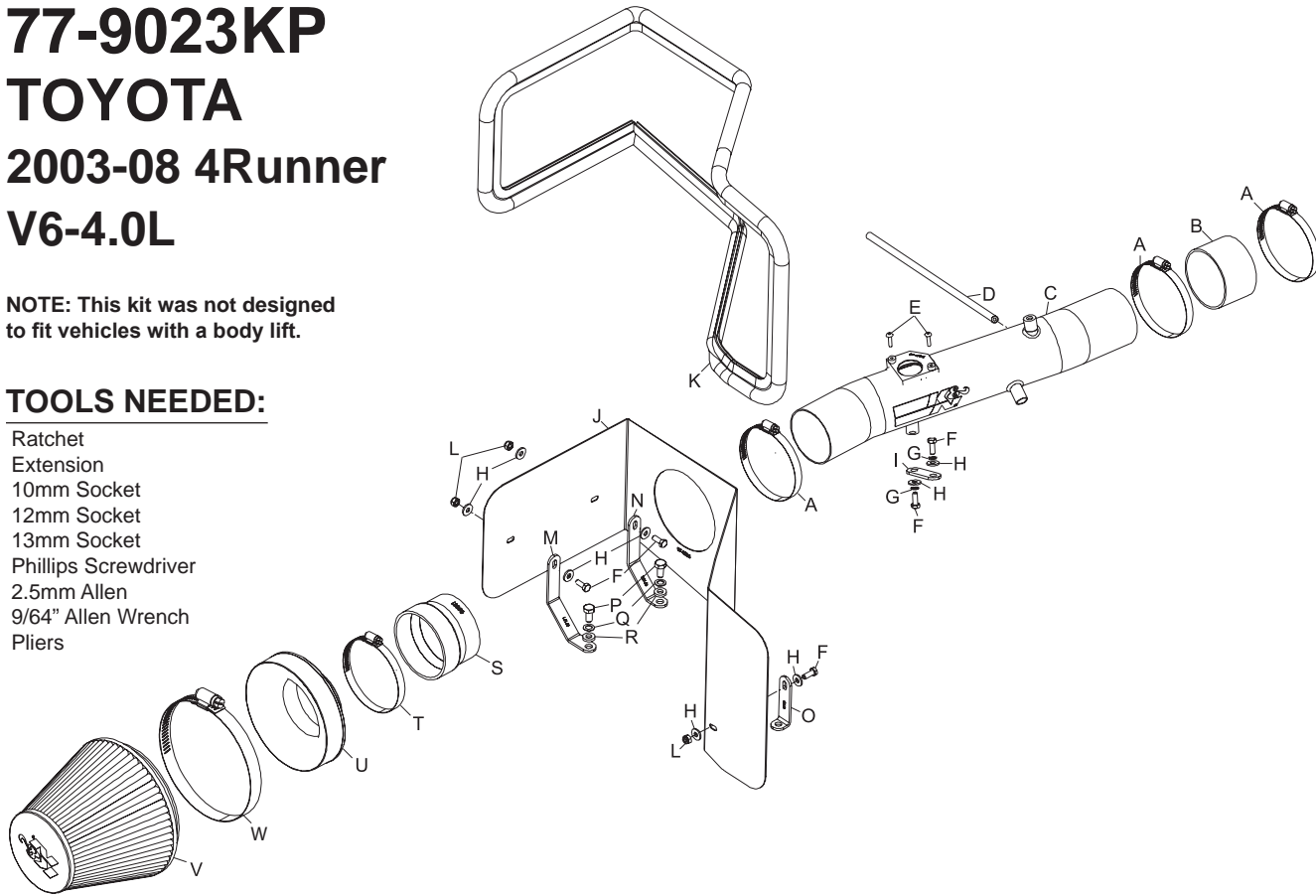
INSTALLATION INSTRUCTIONS

77-9023KP TOYOTA 2003-08 4Runner V6-4.0L

NOTE: This kit was not designed to fit vehicles with a body lift.

TOOLS NEEDED:

- Ratchet
- Extension
- 10mm Socket
- 12mm Socket
- 13mm Socket
- Phillips Screwdriver
- 2.5mm Allen
- 9/64" Allen Wrench
- Pliers



PARTS LIST:

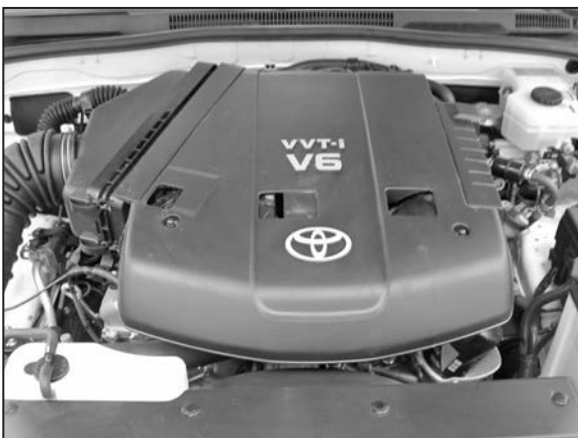
Description	Qty.	Part #
A Hose Clamp; #48	3	08601
B Hose; 3"ID X 2"L, Black	1	08434
C Intake Tube	1	27418
D Silicone Hose, 4mm X 18"L	1	08153
E Bolt; m4-.7 X 16mm Button Head	2	07793
F Bolt; 6mm-1.00 X 16mm	5	07703
G Washer; 1/4" Split Lock	2	08198
H Washer; 1/4"ID X 5/8"OD Flat	8	08275
I Bracket; Straight	1	07133
J Heat Shield	1	074005
K Edge Trim 83"	1	102503
L Nut; 6mm Nylock	3	07553
M Bracket, Long	1	07171
N Bracket, Medium	1	07172
O Bracket	1	07158
P Bolt; 8mm X 1.25 X 16mm	2	07844
Q Washer; 8mm Wave	2	08239
R Washer; 5/16"ID X 5/8"OD Flat	2	08276
S Hose; 3" to 3-1/2" X 3"L, TPRD,	1	084055
T Hose Clamp #56	1	08620
U Adapter; #380	1	21512-1
V Air Filter	1	RF-1048
W Hose Clamp #104	1	08697

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 two nuts that secure the engine cover, then remove the engine cover.



3. Loosen the hose clamps at the airbox and resonator.



4. Pull wire harness clip up to release from intake tube.



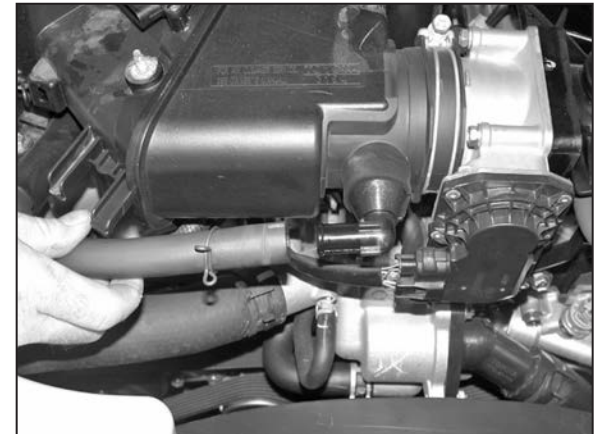
5. Remove intake tube from vehicle as shown.



6. Remove the two bolts that secure the resonator to the inner fender, then remove resonator from vehicle as shown.



7. Disconnect the two mass air wire harnesses retaining clips from the airbox, then disconnect the mass air sensor electrical connection.



8. Remove the crankcase vent hose from the airbox as shown.



9. Remove the fuel pressure regulator hose from the back side of airbox.

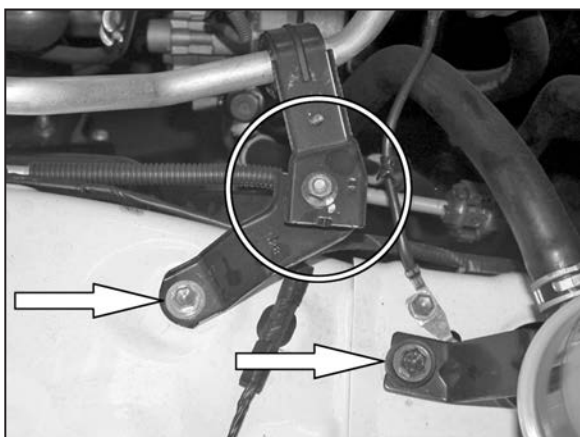


10. Loosen the hose clamp at the throttle body, then remove the two bolts that secure the airbox to the engine.



11. Remove the airbox assembly from engine as shown.

NOTE: K&N Engineering, Inc., recommends that customers do not discard factory air intake.



12. On vehicles equipped with the A/C mounting bracket, remove the A/C mounting bracket and loosen the nut. Then, remove the power steering reservoir mounting bolt.

NOTE: The power steering reservoir bolt will be re-used.



13. Rotate the A/C mounting bracket onto the power steering reservoir, then secure it using the bolt from the previous step. Tighten the A/C mounting nut.



14. Remove the 12mm bolt that retains the power steering reservoir to the vehicle, then mount the provided bracket (07158) onto the vehicle with the bolt that was removed.



15. Mount the two provided brackets onto the vehicle with the provided hardware.

NOTE: Bracket (07172) mounts closest to engine.



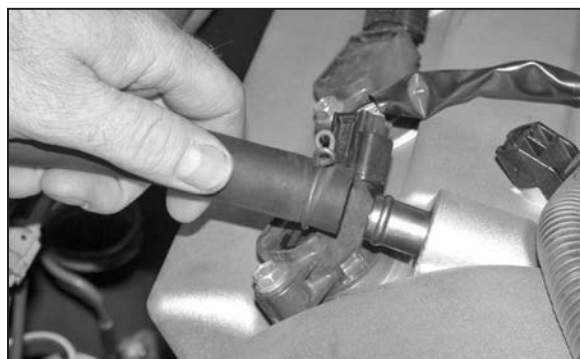
16. Install the edge trim onto the heat shield as shown. Trim if needed.



17. Install the heat shield onto the vehicle, then secure the brackets with the provided hardware.



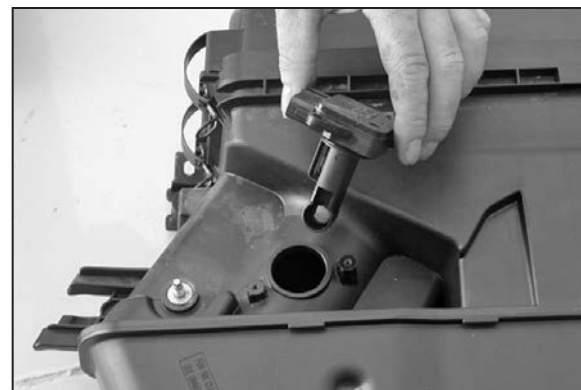
18. Remove the crankcase vent hose from the valve cover.



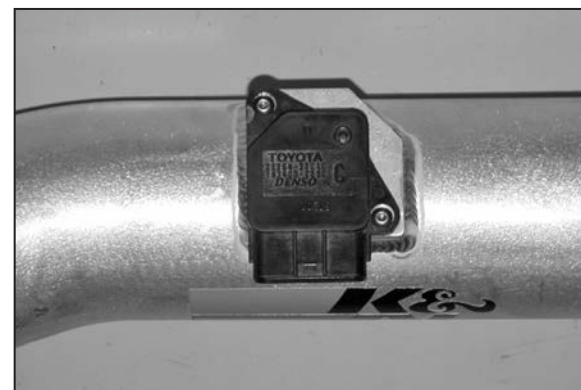
19. Flip the crankcase vent hose around and reconnect the opposite end of the hose to the valve cover.



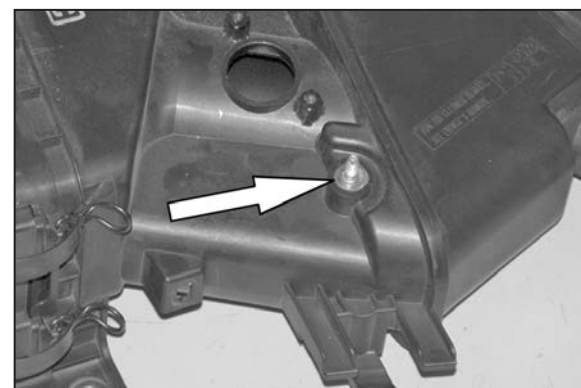
20. Install the provided silicone hose (08434) onto the throttle body with the provided hose clamps.



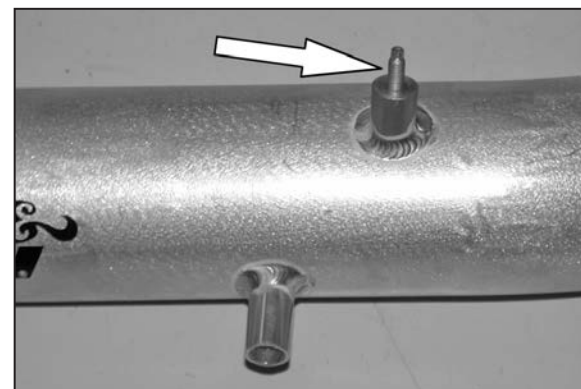
21. Remove the two screws that secure the mass air sensor to the airbox assembly, then remove the mass air sensor as shown.



22. Secure the mass air sensor to the K&N® intake tube using the provided bolts as shown.



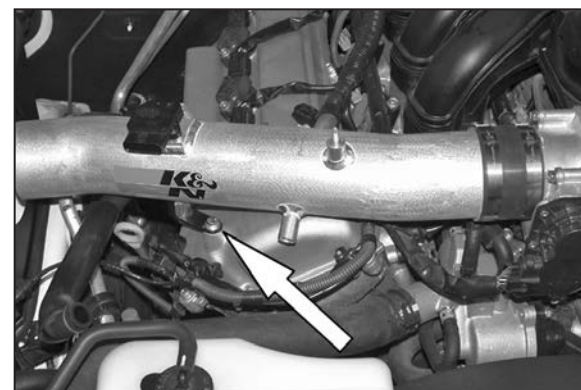
23. Remove the engine cover mounting stud shown from the factory airbox.



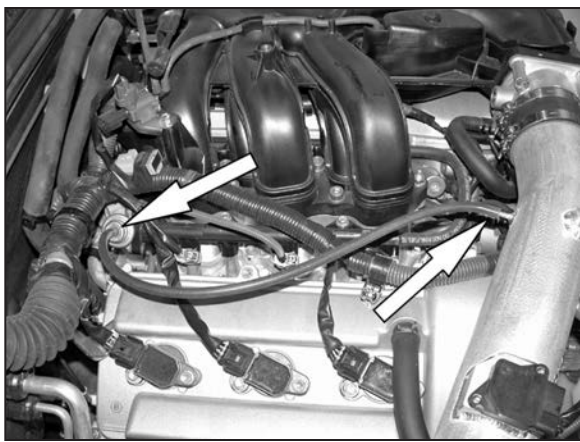
24. Install the stud removed in step #23 into the threaded boss on the K&N® intake tube as shown.



25. Install the tube mounting bracket (07133) onto the K&N® intake tube as shown.



26. Install the K&N® intake tube onto the throttle body, align the mounting bracket with the threaded boss on the engine valve cover and then secure with the provided hardware and hose clamp.



27. Remove the stock vacuum hose from fuel pressure regulator. Install the provided silicone hose, attaching the hose to the fuel pressure regulator and the K&N® intake tube nipple.



28. Connect the factory crankcase vent hose onto the K&N® intake tube as shown.



29. Install the filter adapter into the air filter as shown, secure with the provided hose clamp.

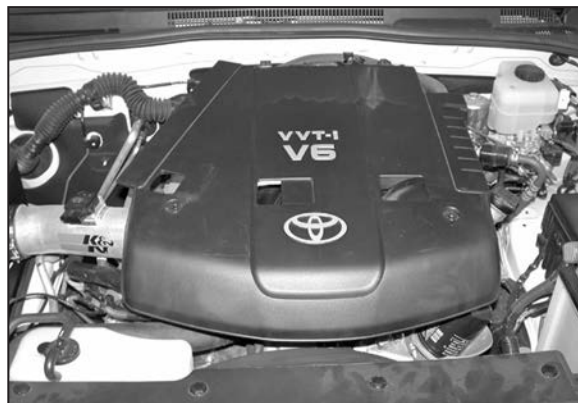


30. Install the provided silicone hose (084055) onto the filter adapter and secure with the provided hose clamp as shown.

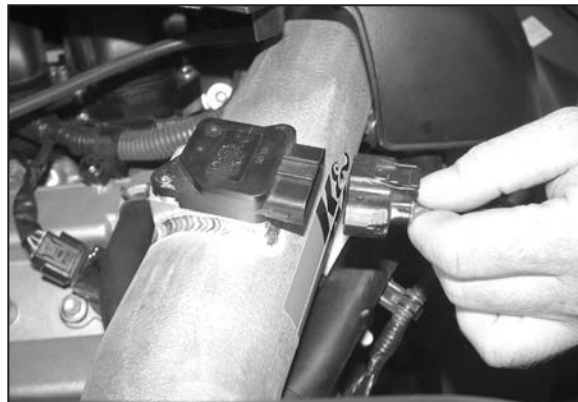
NOTE: Drycharger® air filter wrap; part # RF-1048DK is available to purchase separately.



31. Install the air filter assembly onto the K&N® intake tube and secure with the provided hose clamp.



32. Reinstall the engine cover using the original nuts removed in step #1.



33. Reconnect the mass air sensor electrical connection.



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

35. 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.