



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

# INSTALLATION INSTRUCTIONS

57-2527

FORD

\*1997-00 Ranger / Explorer

V6-4.0L OHV

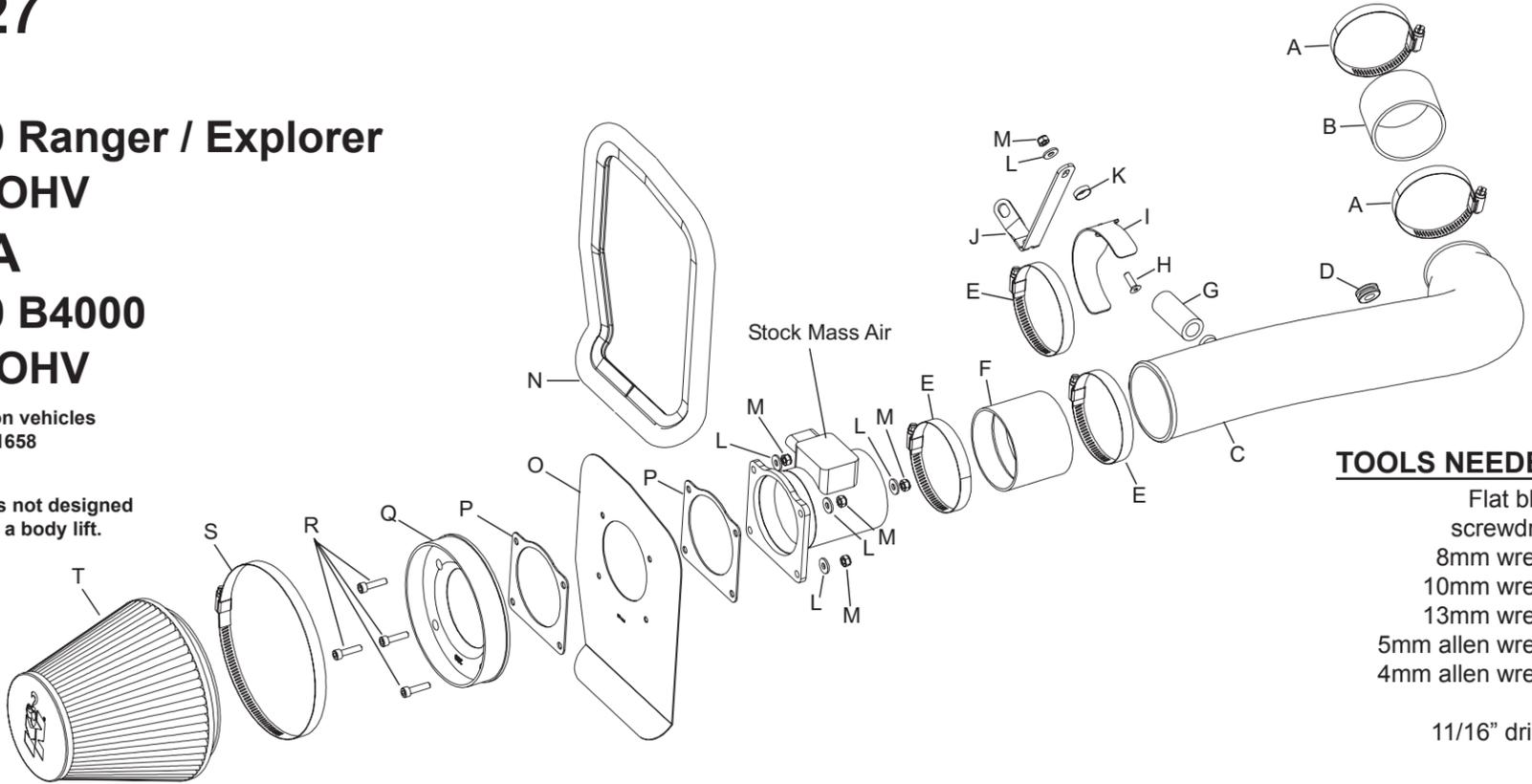
MAZDA

\*1997-00 B4000

V6-4.0L OHV

\* Only applicable on vehicles equipped with FA 1658 flat panel filter

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



**TOOLS NEEDED:**

- Flat blade screwdriver
- 8mm wrench
- 10mm wrench
- 13mm wrench
- 5mm allen wrench
- 4mm allen wrench
- Drill
- 11/16" drill bit

**PARTS LIST:**

Description	Qty.	Part #	Description	Qty.	Part #	Description	Qty.	Part #
A Hose clamp #44	2	08577	H Bolt, 6mm-1.00x20mm F/N/A	1	08376	O Heat shield	1	07444
B Silicone hose	1	08756	I Bracket, saddle	1	078855	P Gasket	2	09330
C Intake tube	1	087008	J Bracket	1	070016	Q Mass air adapter	1	08831
D Grommet	1	08092	K Washer, conical	1	08180	R Bolt, 6mm-1.00x25 allen	4	07859
E Hose clamp #52	3	08610	L Washer, 1/4"ID	5	08275	S Hose clamp #104	1	08697
F Silicone hose	1	08690	M Nut, 6mm nylock	5	07553	T Filter	1	RF-1048
G Hose 5/8"ID x 2-1/4"L	1	08692	N Edge trim 33"L	1	102498			

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

**TO START:**

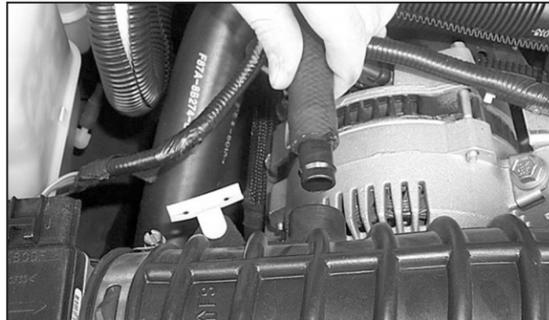
1. Turn off the ignition and disconnect the negative battery cable.  
**NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after 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.**



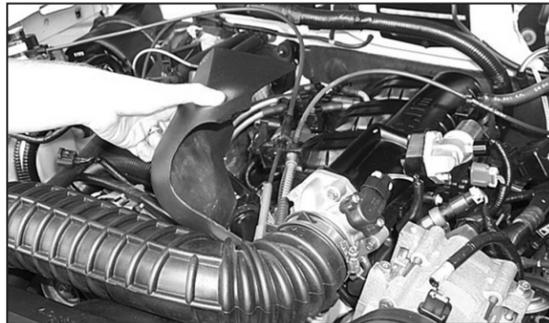
2. Disconnect the mass air sensor electrical connection



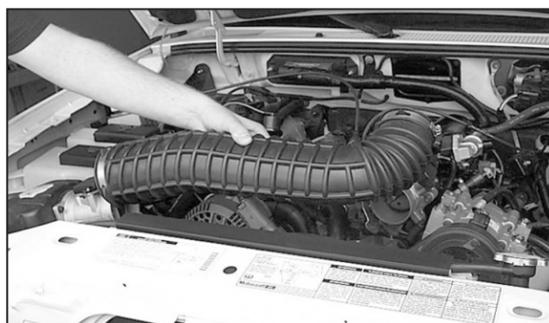
3. On models that come equipped with an air temp sensor, disconnect electrical connection.



4. Remove the crankcase vent hose as shown.



5. Loosen and remove the two bolts that secure the throttle linkage cover, then remove the cover as shown.



6. Loosen the hose clamps at the throttle body and at the mass air sensor then remove the air intake tube as shown.

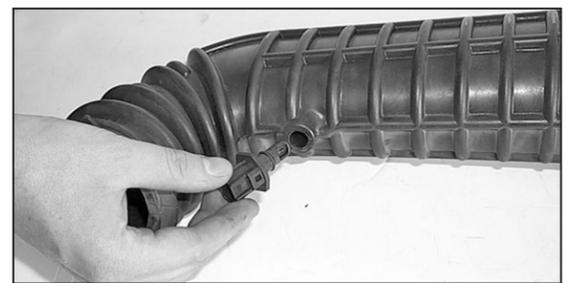


7. Using a screwdriver, pry up on the bottom of the air cleaner assembly to release the air cleaner from the factory grommets, then remove the air cleaner assembly as shown.

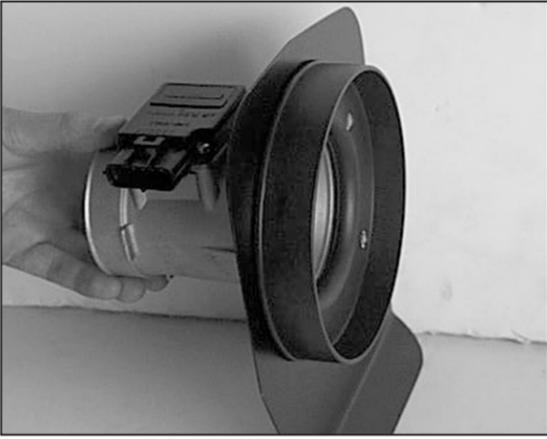
**NOTE: K&N Engineering, Inc., recommends that customers do not discard factory air intake.**



8. Loosen and remove the four bolts that secure the mass air sensor, then remove the mass air sensor as shown.



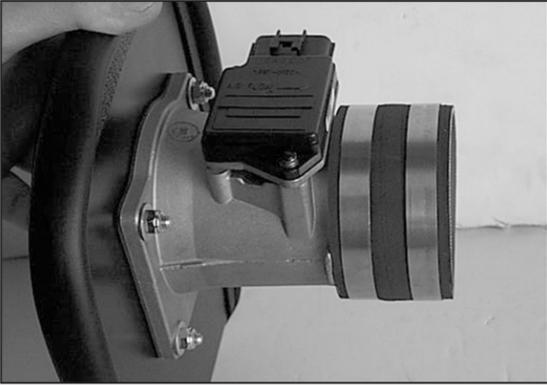
9. Remove the air temp. sensor from the factory intake tube as shown.



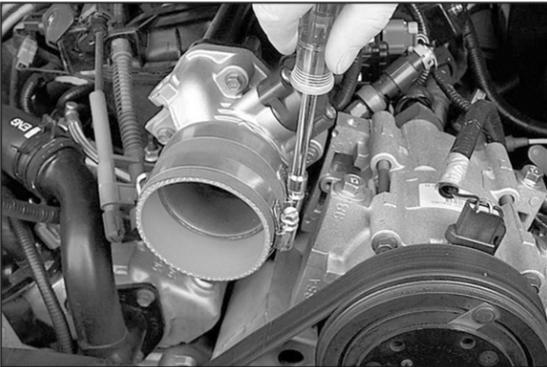
10. Using the provided hardware, assemble the mass air adapter, gaskets, heat shield and mass air sensor as shown.



11. Apply the trim seal to the heat shield assembly as shown.



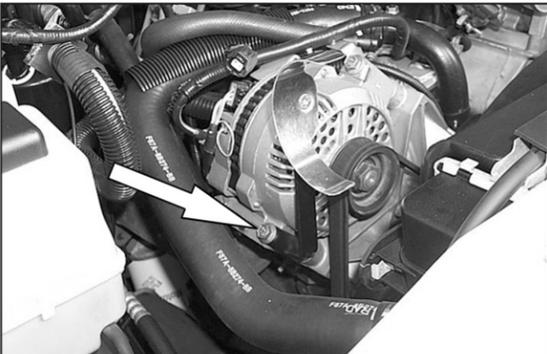
12. Install the silicone hose and hose clamps onto the heat shield assembly as shown.



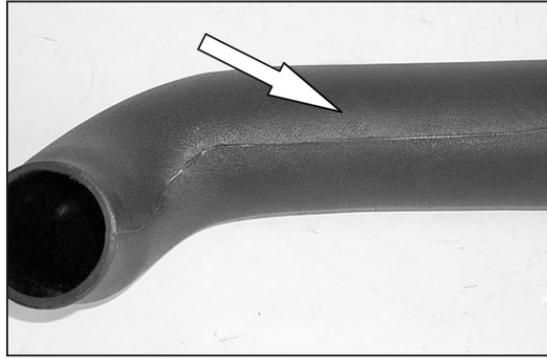
13. Install the silicone hose and hose clamps onto the throttle body as shown.



14. Using the provided hardware, assemble the saddle bracket assembly as shown.



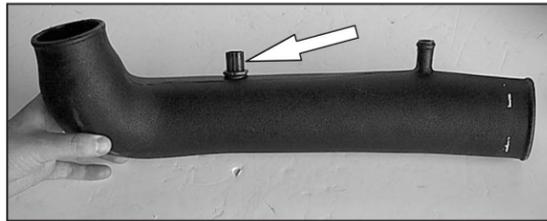
15. Remove the front lower alternator bolt, then secure the saddle bracket assembly using the same bolt as shown.



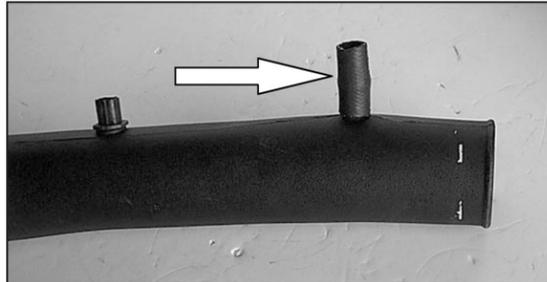
16. On models equipped with an external air temp sensor, drill out the drill point in the K&N® intake tube using a 11/16" drill bit.  
**NOTE: If vehicle did not come equipped with an air temp sensor, go to step 19.**



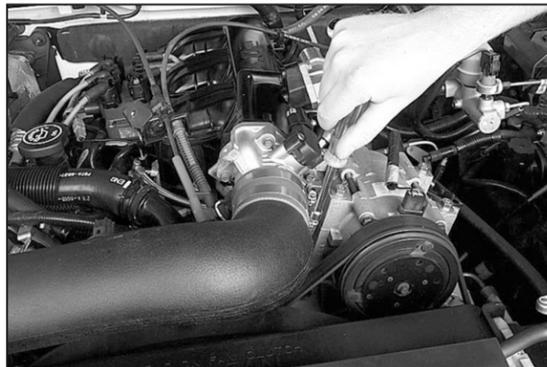
17. Install the provided grommet onto the K&N intake tube as shown.



18. Install the air temp. sensor into the grommet in the K&N® intake tube as shown.



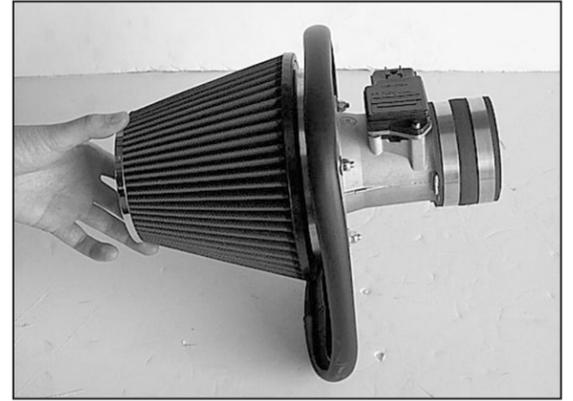
19. Install the rubber hose onto the vent on the K&N® intake tube as shown.



20. Install the K&N® intake tube onto the throttle body and secure as shown.



21. Using the provided hose clamp, secure the K&N intake tube to the saddle bracket assembly as shown.



22. Install the K&N® Filter onto the heat shield assembly as shown.  
**NOTE: Drycharger® air filter wrap; part # RF-1048DK is available to purchase separately. To learn more about Drycharger® filter wraps or look up color availability please visit <http://www.knfilters.com>.**



23. Install the heat shield assembly onto the K&N® intake tube and tighten the hose clamp as shown.



24. Reconnect the crankcase vent hose as shown.



25. Reconnect the air temp sensor electrical connections as shown.



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



27. Re-install the throttle linkage cover as shown.

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

29. 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.

30. 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 \*