



TYPHOON™ INTAKE SYSTEMS

INSTALLATION INSTRUCTIONS

69-6020

MAZDA

2002 MP3

2002-03 Protege, Protege 5

L4-2.0L

TOOLS NEEDED:

Flat Blade screwdriver

Phillips screwdriver

Pliers

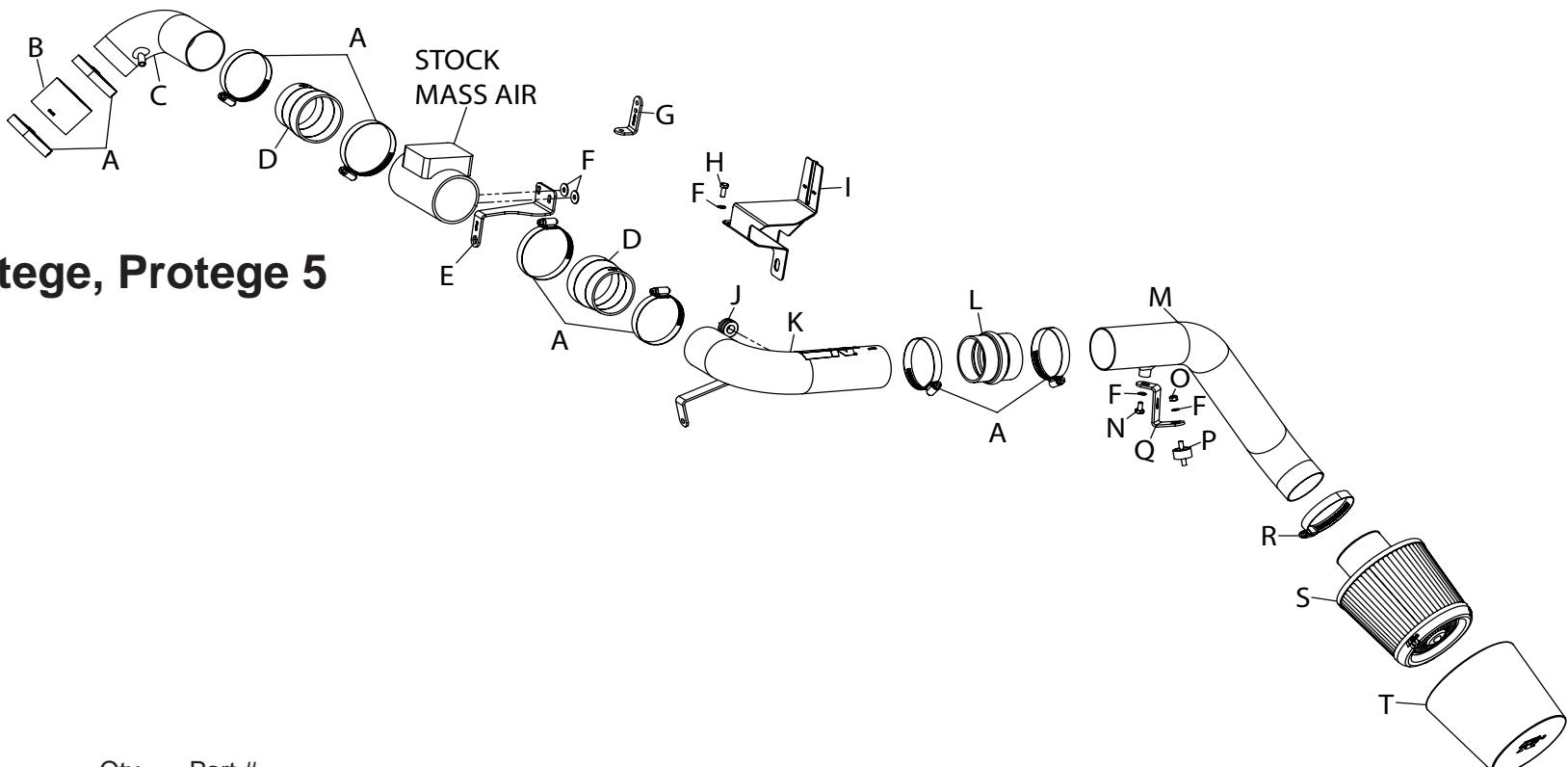
10mm wrench

12mm wrench

13mm wrench

14mm wrench

4mm Allen wrench



PARTS LIST:

Description	Qty.	Part #	Description	Qty.	Part #	Description	Qty.	Part #
A Hose Clamp, #44	8	08560	H 6mm Hex Bolt, 16mm L.	1	07812	O 6mm Nylock Nut	1	07512
B Silicone Hose	1	08284	I Coolant Reservoir Bracket	1	070030	P 6mm Rubber Mounted Stud	1	07027
C Throttle Body Tube	1	27097	J Rubber Grommet	1	08064	Q "Z" Bracket, Small	1	070027
D Silicone Step Hose,	2	084016	K Short Ram Tube	1	27098	R Hose Clamp, #40	1	08554
E "Z" Bracket, Large	1	070028	L Silicone Hump Hose, Black	1	084018	S Air Filter	1	RU-4950
F Flat Washer	5	08269	M Cold Air Tube	1	27099	T Drycharger	1	RX-4990DK
G "L" Bracket	1	070029	N 6mm Hex Bolt, 12mm L.	1	07727			

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. Disconnect the mass air sensor and air temperature sensor electrical connections.



3. Remove the purge control valve from the stock rubber intake tube.



4. Disconnect the crank case vent hose from the stock rubber intake hose.



5. Loosen the hose clamps at the throttle body and at the mass air sensor, then, remove the rubber intake hose.



6. Loosen and remove the two nuts that secure the air inlet ducting to the top of the radiator core, then, remove the air inlet ducting.



7. Loosen and remove the nut and bolt that secure the air cleaner assembly, then, remove the air cleaner assembly.

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



8. Loosen and remove the secondary air inlet duct that attaches to the air cleaner assembly and remove.



9. Slide the coolant reservoir upwards to release the reservoir from the support bracket as shown.



10. Loosen and remove the two bolts that secure the coolant reservoir support bracket to the inner fender, then, remove the support bracket.



11. Jack the vehicle up and support it with jack stands, then, remove the inner fender wheel house valance as shown.



12. Loosen and remove the two bolts that secure the mass air sensor to the air cleaner lid, then, remove the mass air sensor.



13. Remove the air temperature sensor from the air cleaner lid as shown.



14. Remove the upper bolt on the transaxle mount as shown.



15. Install the new coolant reservoir support bracket using the bolt removed in step 14, then, secure it with the provided hardware as shown.



16. Slide the coolant reservoir onto the new support bracket as shown.



17. Install the provided silicone hose onto the throttle body and secure with the provided hose clamp.



18. Install the silicone step hose onto the throttle body tube and secure with the provided hose clamp, but do not tighten completely.

NOTE: Before installing the provided hose, inspect the inside of the tube for any debris, then clean the inside out with water and a towel. Inspect the tube one more time before proceeding to the next step.



19. Slide the mass air sensor into the silicone step hose on the throttle body tube and secure with the provided hose clamp, but do not tighten completely. **Note:** Make sure the direction of the airflow is towards the throttle body as indicated by the arrow located on the mass air sensor.



20. Remove the bolt that secures the fuel line support bracket as shown.



21. Secure the provided "Z" bracket to the mass air sensor using the provided washers and the original mass air bolts from step 12.



22. Slide the K&N® throttle body tube into the silicone hose on the throttle body, but do not tighten at this time.



23. Secure the mass air bracket to the original fuel line support bracket using the bolt removed in step 20.



24. Install the remaining step hose and hose clamps onto the K&N® intake tube but do not tighten completely.



25. Install the provided grommet into the hole on the K&N® "L" tube, then, install the air temperature sensor into the grommet.



26. Slide the K&N® "L" tube onto the mass air sensor and line up the tube bracket with the ground bracket and secure with the stock bolt.



27. Install the "Z" bracket onto the threaded boss on the K&N® cold air intake tube and secure with the provided hardware.

NOTE: Before installing the provided bracket, inspect the inside of the tube for any debris, then clean the inside out with water and a towel. Inspect the tube one more time before proceeding to the next step.

Continued

INSTALLATION INSTRUCTIONS



28. Install the silicone hump hose onto the cold air intake tube and secure with the provided hose clamp.



29. Install the rubber mounted stud into the threaded hole on the inner frame rail as shown.



30. Install the cold air tube into the hole in the inner fender then slide the silicone hose onto the short "L" tube as shown and secure with the provide hose clamp. Also secure the "Z" bracket to the rubber mounted stud with the provided washer and nylock nut.



31. Remove the factory bracket from the purge control valve and replace it with the new K&N® "L" bracket using the stock nut.



32. Secure the purge control valve to the bracket/threaded boss on the intake manifold using the stock hex bolt.



33. Reconnect the crank case vent hose to the K&N® intake tube as shown.



34. Install 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.



35. From underneath the vehicle install the K&N® air filter onto the K&N® cold air intake tube and secure with the provided hose clamp.

36. Reverse the removal process and re-install the inner fender valance.



37. Reconnect the mass air sensor, and air temperature sensor electrical connections.



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



39. This K&N® high flow intake system has been designed to be used in two different configurations. In the case of inclement weather, the cold air tube can be removed and the air filter can be clamped onto the intake tube located in the engine compartment to avoid the possibility of ingesting water into the engine.

NOTE: If you have any concerns, return the vehicle to stock using the factory equipment.

40. The C.A.R.B. exemption sticker, (attached), must be visible under the hood, so the 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.

41. 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., suggests checking the air filter element periodically for excessive dirt build-up. When the element becomes covered in dirt (or once a year), service it according to the instructions on the Recharger® service kit, part number 99-5050 or 99-5000.

**50-STATE STREET LEGAL
CARB EXEMPT**

* FREE K&N® decal To register your warranty, please see us online at knfilters.com/register. FREE K&N® decal *

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