

# TYPHOON INTAKE SYSTEMS

BY 

**Warning:** Please follow these installation instructions carefully. The K&N Drycharger included with this kit must be installed on the K&N air filter when used with a K&N Typhoon Cold Air Intake System. The K&N Typhoon Intake System is 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 airbox and intake tract configuration. Failure to follow these instructions can void your warranty.

## INSTALLATION INSTRUCTIONS

### 69-6020

### Mazda

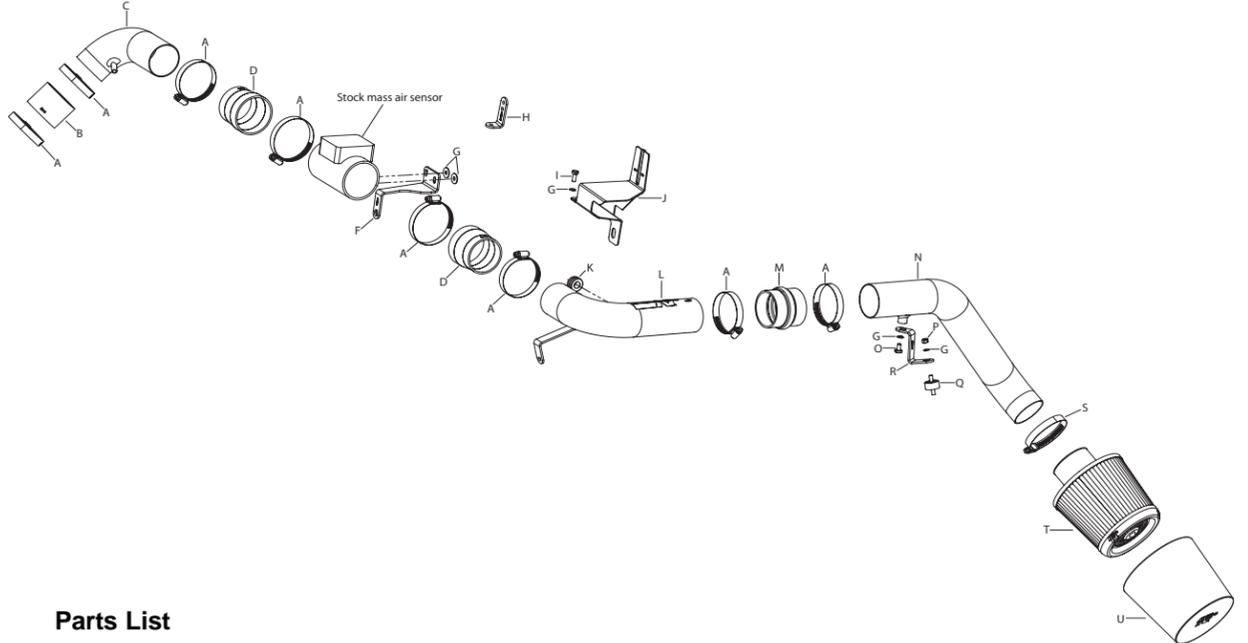
### 2002-03 Protege 5, MP3

### L4-2.0L

#### TOOLS NEEDED:

Flat Blade screwdriver  
Phillips screwdriver  
Pliers  
10mm wrench  
12mm wrench  
13mm wrench  
14mm wrench  
4mm Allen wrench

Prior to the installation process, please inspect the contents of this package to ensure that all parts are included in this kit. Please see parts list for description and quantities.



#### Parts List

Description	Qty.	P/N
A Hose Clamp, #44	8	08560
B Silicone Hose, Black	1	08441
C Typhoon Throttle Body Tube	1	27097
D Silicone Step Hose, Black	2	084016
F "Z" Bracket, Large	1	070028
G Flat Washer	5	08269
H "L" Bracket	1	070029
I 6mm Hex Bolt, 16mm L.	1	07812
J Coolant Reservoir Bracket	1	070030
K Rubber Grommet	1	08064
L Typhoon Short Ram Tube	1	27098
M Silicone Hump Hose, Black	1	084018

Description	Qty.	P/N
N Typhoon Cold Air Tube	1	27099
O 6mm Hex Bolt, 12mm L.	1	07727
P 6mm Nylock Nut	1	07512
Q 6mm Rubber Mounted Stud	1	07027
R "Z" Bracket, Small	1	070027
S Hose Clamp, #40	1	08554
T Filtercharger	1	KRU4950E
U K&N Drycharger	1	971001DK

#### TO START:

1. Turn the ignition OFF and disconnect the vehicle's negative battery cable.



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.



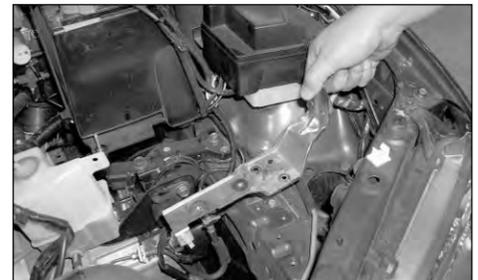
7. Loosen and remove the nut and bolt that secure the air cleaner assembly, then, remove the air cleaner assembly.



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.



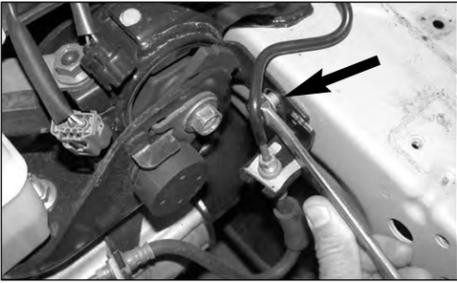
11. Jack the vehicle up and support it with jack stands, then, remove the inner fender wheel house valance as shown.



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.



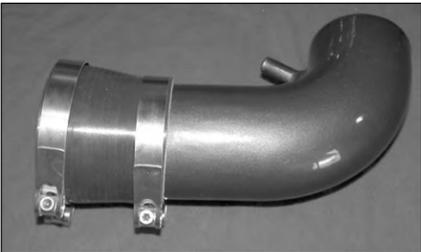
15. Install the new coolant reservoir support bracket using the bolt removed in step 14, then, secure it with the provided hardware as shown.



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.



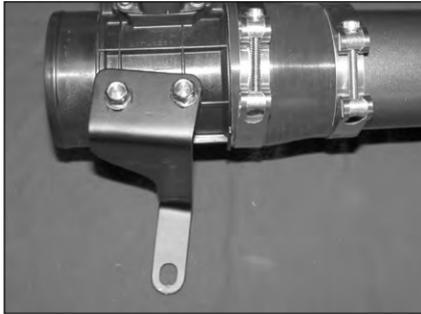
18. Install the silicone step hose onto the throttle body tube and secure with the provided hose clamp, but do not tighten completely. **NOTE:** Before installing the provided hose, inspect the inside of the tube for any debris, then clean the inside out with water and a towel. Inspect the tube one more 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.



28. Install the silicone hump hose onto the K&N 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.



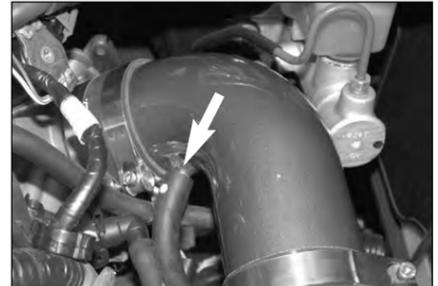
30. Install the K&N cold air tube into the hole in the inner fender then slide the silicone hose onto the short "L" tube as shown and secure with the provide hose clamp. Also secure the "Z" bracket to the rubber mounted stud with the provided washer and nylock nut.



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.

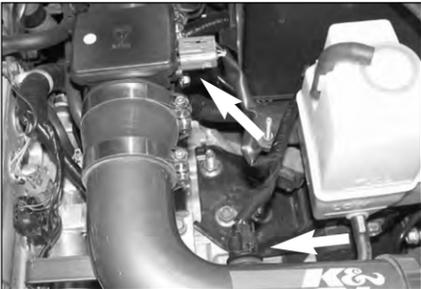


34. Install the K&N Drycharger onto the K&N Filtercharger as shown. **NOTE:** The Drychargers water repellent properties last up to two years. See the parts list to order additional Drychargers if necessary.



35. From underneath the vehicle install the K&N Filtercharger 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. Re-connect the negative battery cable and double check that everything is tight and properly positioned before starting the vehicle.



39. This K&N Typhoon kit 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 filter can be clamped onto the short "L" tube located in the engine compartment to avoid the possibility of ingesting water into the engine.

40. 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.

41. It will be necessary for all Typhoons 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 suggests checking the Filtercharger 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 99-5000 or 99-5050.