

TYPHOON INTAKE SYSTEMS®

BY 

INSTALLATION INSTRUCTIONS

69-9000

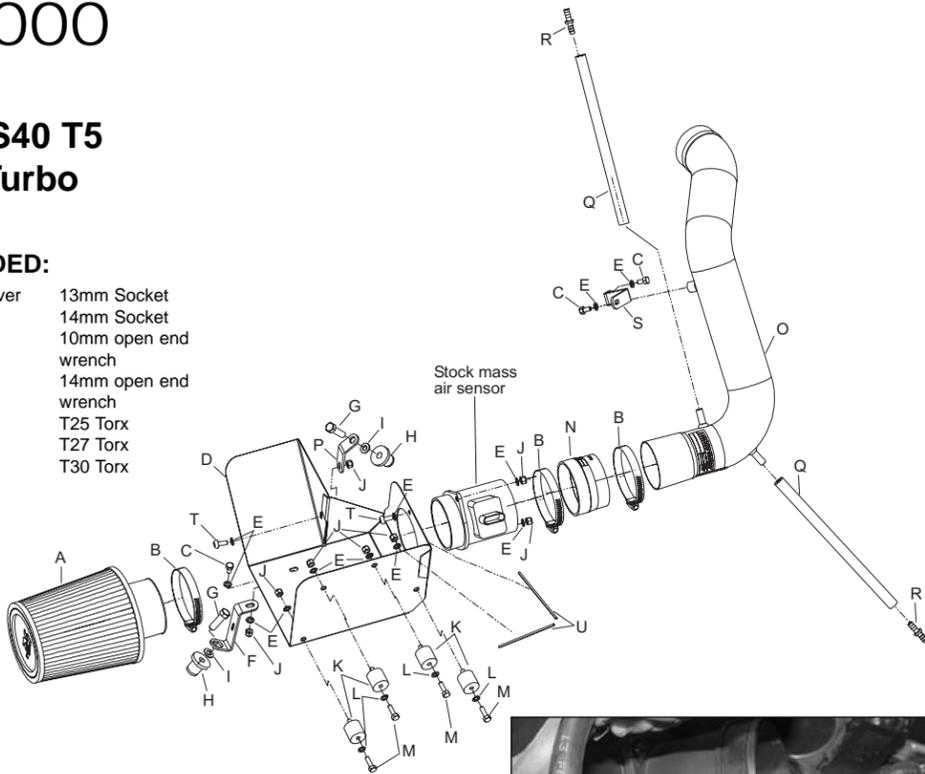
Volvo

2004-06 S40 T5

L5-2.5L Turbo

TOOLS NEEDED:

Flat Blade Screwdriver	13mm Socket
Phillips Screwdriver	14mm Socket
3mm Allen Wrench	10mm open end wrench
4mm Allen Wrench	14mm open end wrench
Ratchet	14mm open end wrench
Extension	T25 Torx
8mm Socket	T27 Torx
10mm Socket	T30 Torx
12mm Socket	



Parts List

Description	Qty.	P/N
A AIR FILTER	1	KRU4730E
B HOSE CLAMP #48	3	08601
C BOLT M6-1.0X12MM, SS	3	07727
D HEAT SHIELD 69-9000, STL, FB/PC	1	07335
E WASHER 6MM WAVE, SS	13	08277
F BRACKET 69-9000, "Z", LRG, STL, FB/PC	1	020004
G BOLT 3/8"-16 X 1-1/4"L SS HEX HEAD BOLT	2	07779
H INSERT 3/8-16 X 3/4 X 15/16L, RUBBER	2	08163
I WASHER 3/8", FLAT, SS	2	08134
J NUT 6MM NYLOCK, SS	8	07553
K STUD RUBBER MOUNT, M6 X 1, 1" T, M/F	4	02033
L WASHER 6MM FLAT, SS	4	08269
M BOLT M6-1.0X20MM, SS	4	07795
N HOSE 3"ID - 3-1/8"ID X 2"L, TPRD SILC, BLK	1	084031
O 69-9000 INTAKE TUBE	1	27509TP
P BRACKET 69-9000, "L", STL, FB/PC	1	020002
Q HOSE 5/16"ID X 21"L, BLACK SILICONE	1	08409
R VENT STRT, 1/4"HOSE - 1/4"HOSE	2	08042
S BRACKET 69-9000, "Z", SML, STL, FB/PC	1	020003
T BOLT M6 X 1.00 X 16MM , BUTTONHEAD, SS	3	07730

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.

TO START:



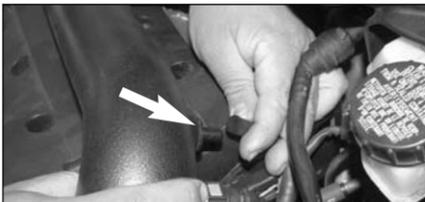
1. Turn the ignition OFF and disconnect the vehicle's negative battery cable by first removing the battery cover as shown.



2. Remove the two bolts that secure the stock intake tube.



3. Loosen the two hose clamps that secure the stock intake tube.



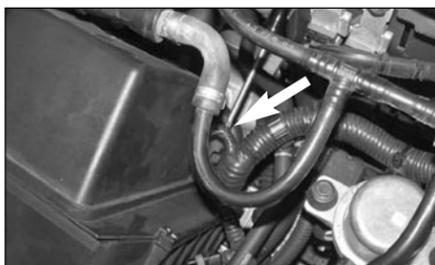
4. Lift slightly and remove the EVAP recirculation line. Then, remove the Carbon Filter Vacuum Hose by depressing the two locking tabs as shown. Then remove intake tube from vehicle.



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



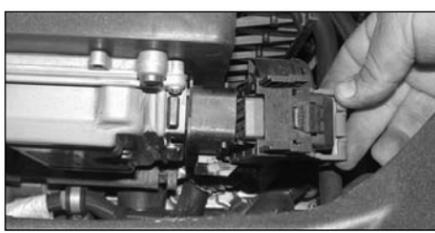
6. Using a Torx T25, remove the two bolts that secure the mass air sensor to the air box and remove from vehicle.



7. Remove the bolt that secures the main wiring harness to the air box, then unclip the harness from the air box.

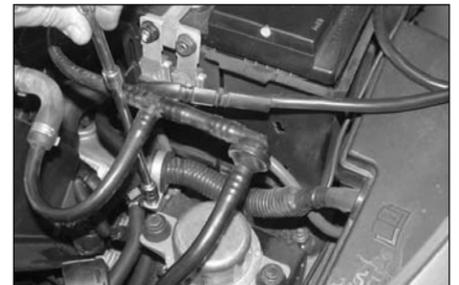


8. Lift and remove the plastic ECM cover from the air box.



9. Depress the release tabs on the upper and lower electrical harness and disconnect from ECM as shown.

NOTE: There may be a zip-tie present holding the harnesses together, cut if present.



10. Loosen and remove the Delphi clamp bolt that secures the main wiring harness to EVAP pump.



11. With a screwdriver, push down and out to release the slide clip that secures the harness bracket to the air box.



12. Loosen and remove the two screws that secure the upper air inlet duct then remove from vehicle.



13. Twist and remove the accordion hose from the lower air inlet duct as shown.



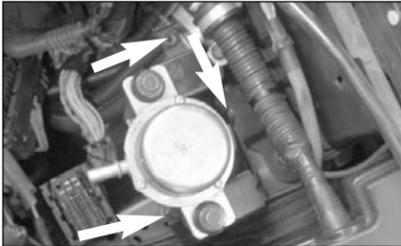
14. Pull upwards to remove the the lower air inlet duct from the air box as shown.



15. Depress the locking tab on the EVAP hose to release from EVAP pump.



16. Disconnect the EVAP pump electrical connection by inserting a small flat blade screwdriver and depressing the locking clip while pulling the connector away from harness.



17. Loosen the two EVAP pump bracket mounting bolts and the main battery harness c-clamp bolt, then remove EVAP pump from vehicle.



18. Pull firmly upwards to release air box from rubber mounting grommets, then carefully slide air box towards battery side of vehicle and slowly remove from vehicle.



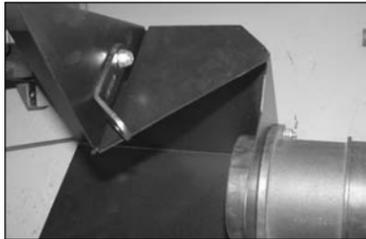
19. Remove the four bolts that secure the ECM to air box using a T30 torx.



20. Remove the mass air sensor O-ring from mass air sensor.



21. Install the mass air sensor onto the heat shield and secure it with provided hardware.



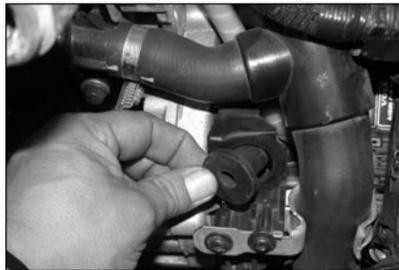
22. Install the "L" bracket onto the heat shield and secure it with the provided hardware.



23. Mount the ECM onto the heat shield with the provided hardware as shown.



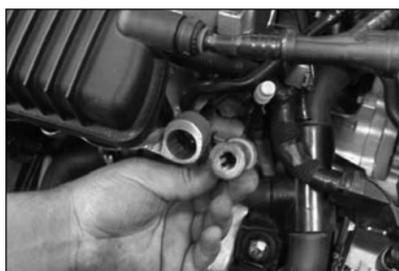
24. Remove the large air box mounting grommet from vehicle.



25. Install the provided threaded insert into the mounting hole from step 24.



26. Secure the large "Z" bracket to the threaded insert as shown. **NOTE:** as you tighten the bolt, the insert will expand locking securely into mounting hole.



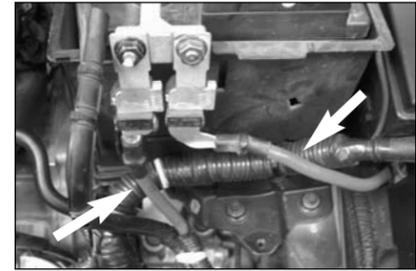
27. Remove the air box mounting grommet sitting on the right side of the engine.



28. Install the threaded insert into the air box mounting hole from step 26.



29. Secure the "L" bracket to the heat shield as shown but do not tighten completely at this time.



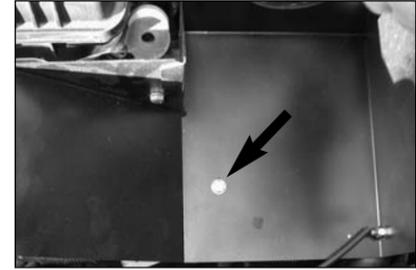
30. Remove the positive battery terminal and then remove the negative ground wire then re-route the battery cables to come up on top of the main electrical harness.



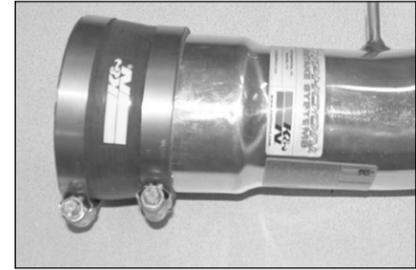
31. Re-connect the two electrical wiring harness to ECM. **NOTE:** The electrical harness will only lock if plugged in correctly, make sure that the harness is installed in the correct direction.



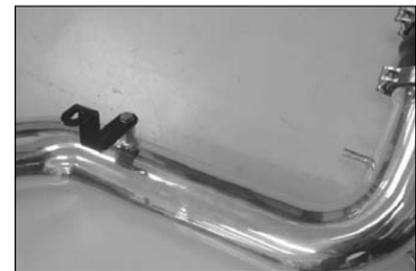
32. Secure the "L" bracket to threaded insert as shown.



33. From underneath the heat shield, secure the large "Z" bracket installed in step 25 to the heat shield using provided hardware.



34. Install the silicone hose and provided hose clamps to the K&N intake tube. **NOTE:** Before installing the silicone 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.



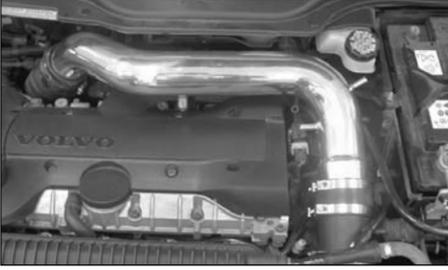
35. Install the "Z" bracket to the intake tube as shown.



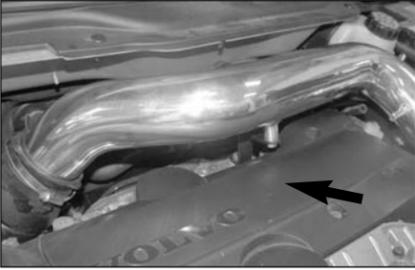
36. Secure the K&N filter onto the stock mass air sensor using the provided hose clamp.



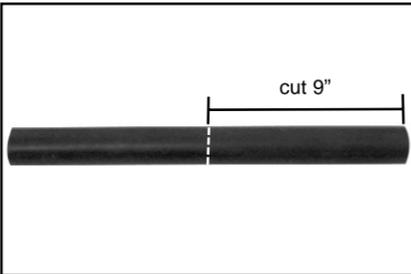
37. Using the supplied edge trim, cut to size and fit over heat shield as shown.



38. Install the K&N intake tube into the stock intake hose, attaching the other end onto the mass air sensor. Secure the intake tube to the stock hose with the stock hose clamp and secure the intake tube to the mass air sensor with the provided hose clamp.



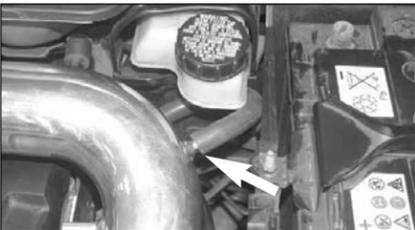
39. Secure the intake tube to the bracket with the provided hardware as shown.



40. Measure and cut the supplied silicone hose into two 9 inch pieces, then insert the supplied hose mender into one end of each hose.



41. Insert the hose mender into the stock EVAP recirculation line as shown.



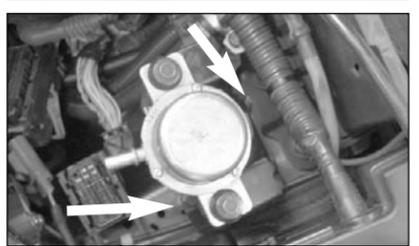
42. Connect the other end of the EVAP recirculation line hose to the vent tube on the intake tube as shown.



43. Insert the Carbon Filter Vacuum Hose onto the stock crankcase hose as shown.



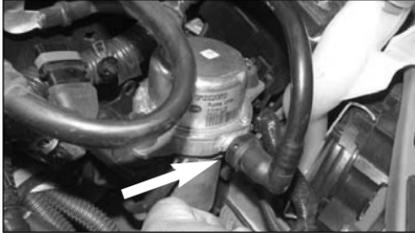
44. Route the hose underneath the intake tube and connect it to the vent tube on the intake tube as shown.



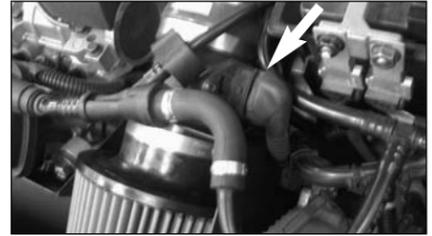
45. Reinstall the EVAP pump and secure with the two mounting bolts removed in step 17.



46. Reconnect the EVAP pump electrical connection detached in step 16.



47. Reconnect the EVAP pump hose to the EVAP pump removed in step 15.



48. Reconnect the mass air sensor electrical connection.



49. Reconnect the negative battery cable and re-install the cover then double check to make sure everything is tightened and properly positioned before starting the vehicle.

50. 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.