

THERMAL BARRIER MANUAL
KAWI PERFORMANCE



Tools Required:

Long Flat Head Screw Driver

¼ or 3/8 Drive Wrench

8mm Socket

12mm Socket

13mm Socket

13mm Open End Wrench

Razor Blade

Brake Cleaner

Compressed Air

Scotch Brite or Air Grinder (Scotch Brite Wheel ONLY!)



1. Gather all required tools before beginning this process. Many machines may have a stock intake box. For removal please refer to factory service manual or upgrade to the KP Ultra Flow Filter Kit.



2. Locate the hose clamp holding the air filter or hose on to the throttle body.



3. Remove filter with long flat head screw driver.



4. Filter kit is now removed, move this out of the way.



5. Remove the fuel rail using a 8 mm socket.



6. Bolt is removed, set aside.



7. Continue removing each bolt using the 8 mm socket, until all are removed. Set aside.



8. Pull fuel rail up, out of gaskets.



9. First locate the blue connector.



10. Disconnect.



11. Locate the white connector.



12. Disconnect.



13. Repeat for this black connector.



14. Remove connectors on fuel injectors. These can be very difficult to remove. You can very carefully use the flat head screw driver to pop up the clip tab to pull off easier.



15. Set harness aside, and make sure all connectors have been removed.



16. Remove the fuel rail out of the way.



17. Make sure the harness is placed out of the way.



18. Locate the end bolt on the intake manifold.



19. Locate the acorn nuts.



20. Remove the acorn nuts on the intake manifold using an 12mm socket.



21. Repeat to remove all four.



22. Remove the bottom bolt.



23. Repeat for the second.



24. Remove manifold and set down in hull. A rubber mallet may be required to tap the manifold free.



25. Locate the two nuts provided in the kit.



26. Using a 13mm wrench and a 13mm socket, tighten the two nuts together as much as possible.



27. Using the bottom nut only and the 13mm open end wrench, loosen the stud.



28. Your stud will come out like this.



29. Remove remainder of studs. Make sure the face of the exhaust ports are clean of all gasket material and oil. You may need to block off all ports with paper towels and use the razor blade to scrape. Scotch brite may be needed also, this must be bare aluminum to seal properly. Blow with air and wipe with brake cleaner to remove oil when done.



30. Coat ends of each SS stud provided in the kit with a little anti-seize.



31. Place the four studs in the 4 top threads as show. Screw in by hand only.



32. Place the gasket on the engine, side does not matter.



33. After the gasket has been placed on, place the thermal barrier on. Make sure the Kawi Performance logo faces you as shown.



34. Place the second gasket on top of the barrier, again gasket side does not matter.



35. You can now place the manifold back onto the engine, please keep in mind the manifold must be super clean and bare aluminum as well. You may need to remove it from the hull to clean properly. You should see the four studs sticking out at the top as shown.



36. Place your washers and acorn nuts on the four studs, and 3 short bolts with washers as well. Tighten acorn nuts to 14 ft.lb and bolts to 18 ft.lb.



37. Your thermal barrier is installed! Now we can Assemble.
38. Pull harness and fuel rail back over intake manifold.



- 39) Hook up all fuel injector connectors. Be sure that they are in proper order.



40) Reconnect the Blue, black and white connectors disconnected earlier.



41) Reconnect fuel rail bolts as shown. The bushing must be inserted in-between the fuel rail and manifold. Be sure not to drop this. Tighten to 106 in.lb.



42) Installation complete. Your machine is ready for use!



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