

Crawford Z Performance



Crawford Z Performance Intake Plenum Installation Instructions



Parts Provided

Crawford Z Performance Plenum

1-Long Bolt (70mm long)

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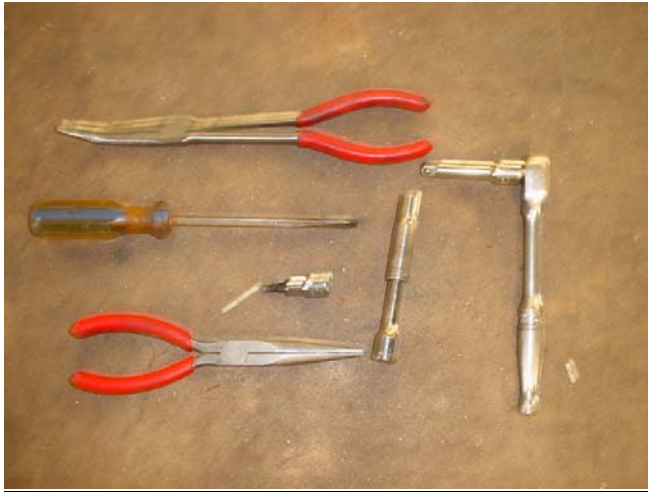
2 Nylon Washers for use with 2 Long Bolts above

4-Short Bolts

***All bolts provided have Loctite already on them.**

***All bolts have 10mm heads**

Tools Required



Flathead Screwdriver

Needle Nose Pliers (preferably Angle-Nosed)

10mm socket (preferably w/ extension) with ¼" drive ratchet (preferred)

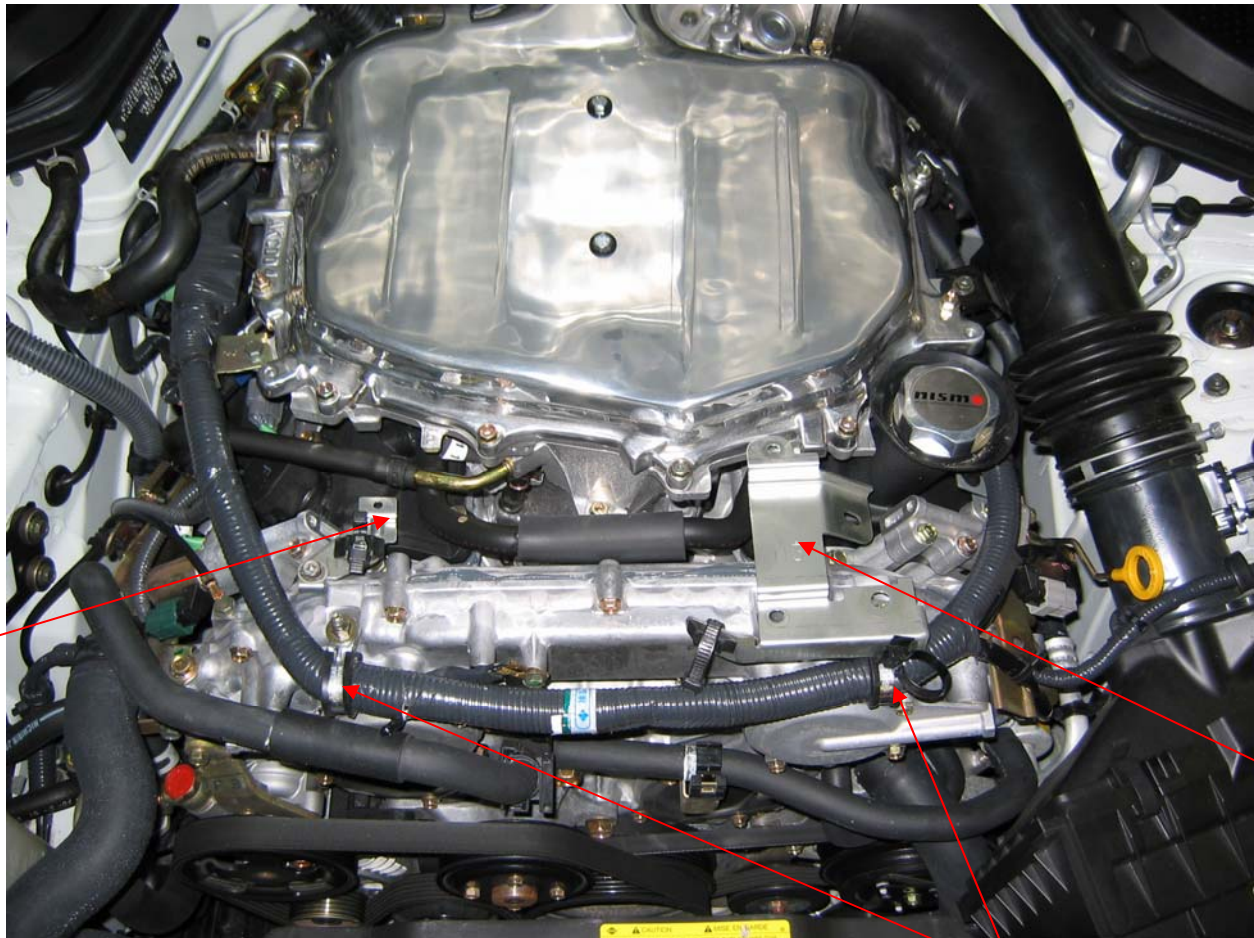
5mm Allen Head (hex head) socket or wrench

I. Engine Cover Removal For All Cars Nissan 350Z and Infiniti G35 and FX35

Remove (4) 10mm bolts holding the engine cover.

Un-clip or cut plastic harness cable ties from harness loom.

Remove the metal **"M3"** labeled bracket from the front right side of the lower plenum and then remove the **"M2"** labeled bracket on the left side of the lower plenum. These brackets will not be reused.



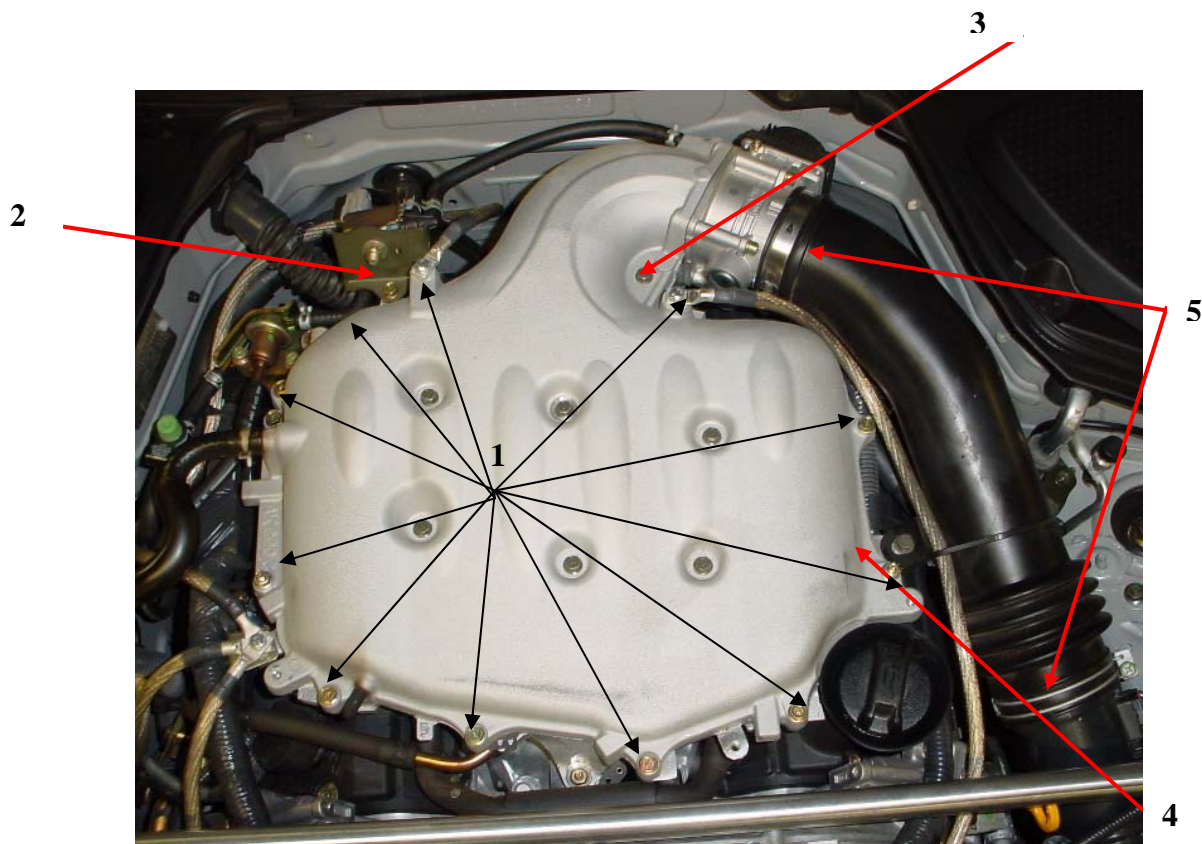
Relocate the wiring loom toward the front of the engine with the **wire loom clamps** and **two small nuts** that were provided with your plenum.

II. Removing Stock Upper Intake Plenum

* Use 10mm socket for all bolts.

1. Remove the 9 brass colored 10mm bolts and 2 nuts from the perimeter of the plenum.
2. Remove the brass colored 10mm bolt from the rear bracket on the upper plenum. Set the bracket to the side.

3. Remove the black 10mm bolt from the plenum between the plenum and the intake bend.
4. Remove the black 10mm bolt from the air intake tube bracket.
5. Loosen both hose clamps on the air intake tube.

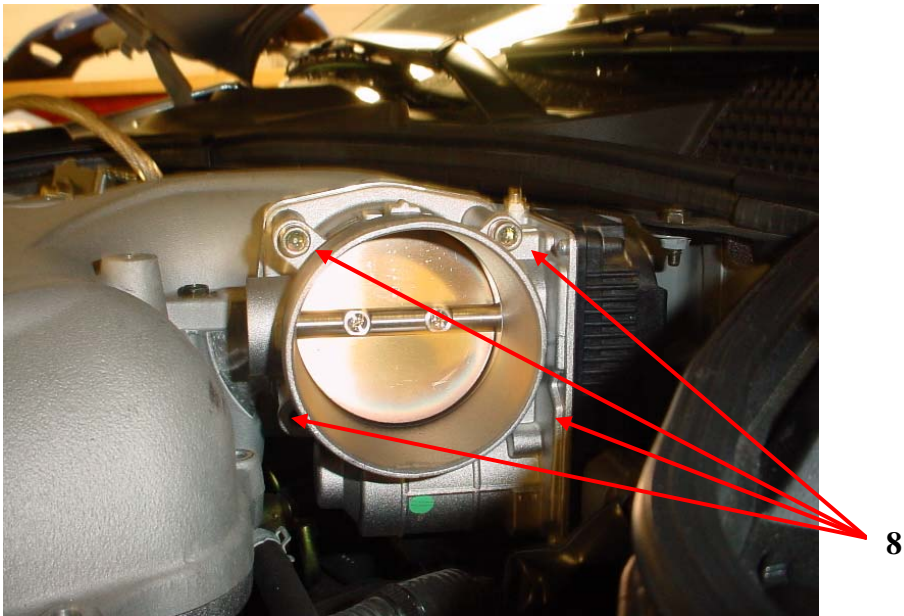


6. Work the air intake tube off the plenum and the Mass Air Flow (MAF) sensor.
7. Remove the black hose from bottom of the air intake tube using pliers to move back the hose clamp.
8. **Carefully** remove the Throttle Body (TB) bolts (4) using the 5mm Allen head wrench or socket.

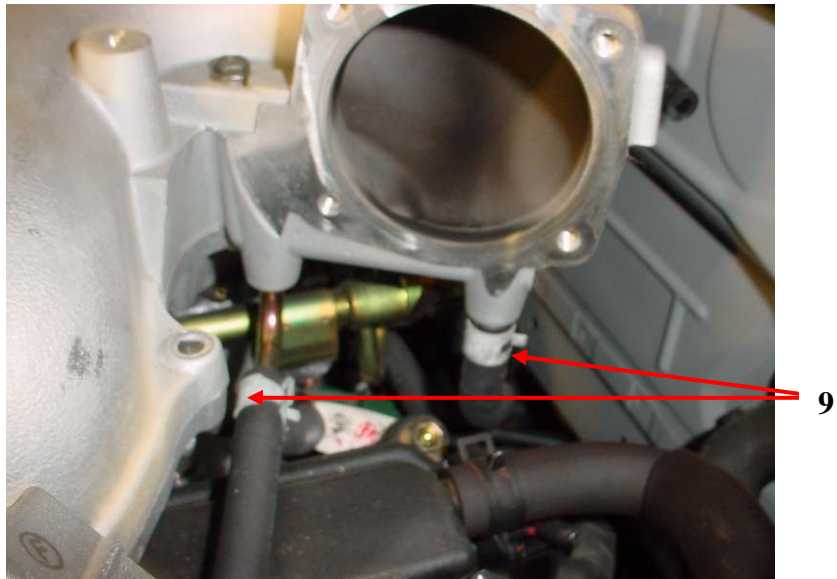
Do not unplug the TB harness.

Do not drop the TB gasket located between TB and plenum.

Carefully rest the TB and the gasket to the side.

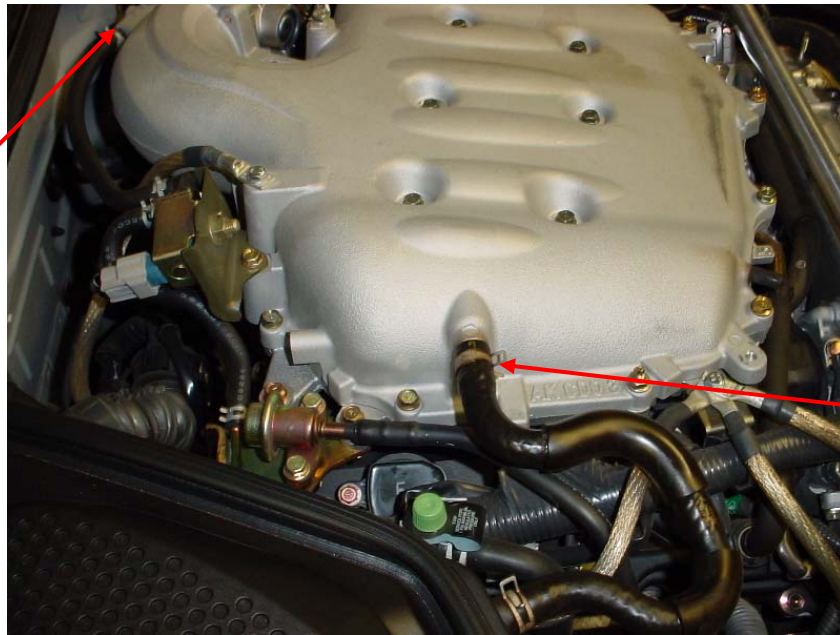


9. Remove the 2 black hoses from the plenum under the TB using pliers to move the back hose clamp.



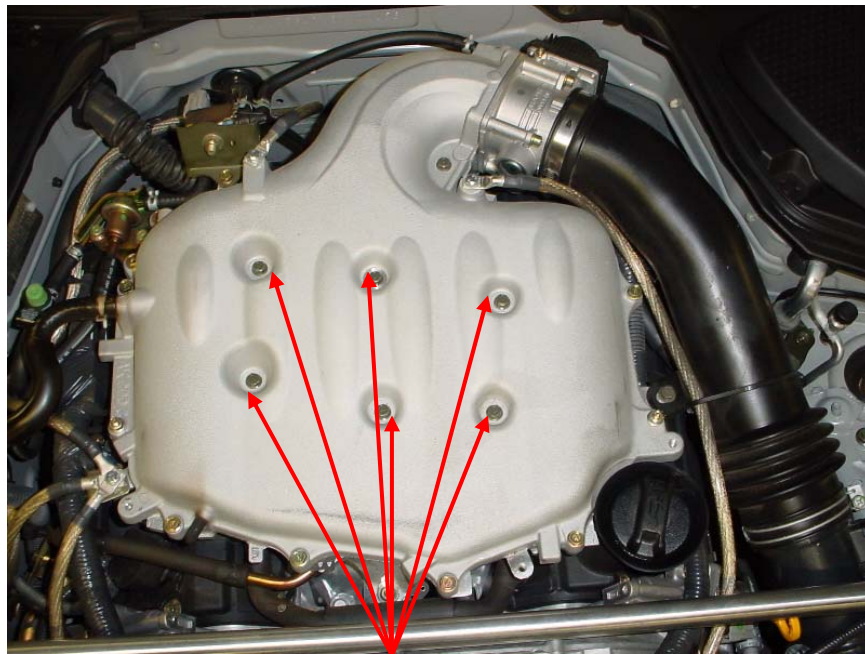
10. Remove the black hose from the rear of the plenum near the TB using pliers to move the back hose clamp.
11. Remove the black hose from the passenger side of the plenum using pliers to move the back hose clamp.

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12. Remove the remaining 6 10mm bolts from the center of the plenum.



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13. Lift off the plenum.

14. Make sure the plenum gasket stays in place on the lower plenum.

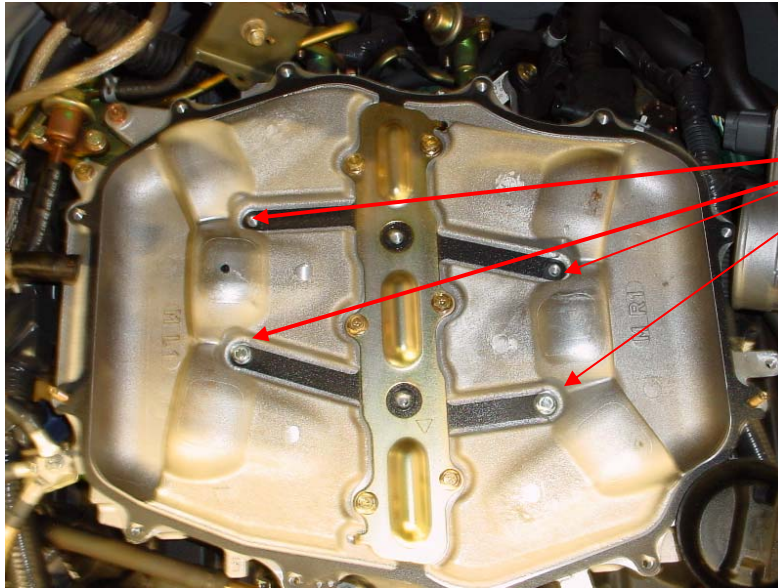
III. Installing the Crawford Z Performance Plenum

Reuse both the plenum gasket and throttle body gasket. There is no need to replace them.

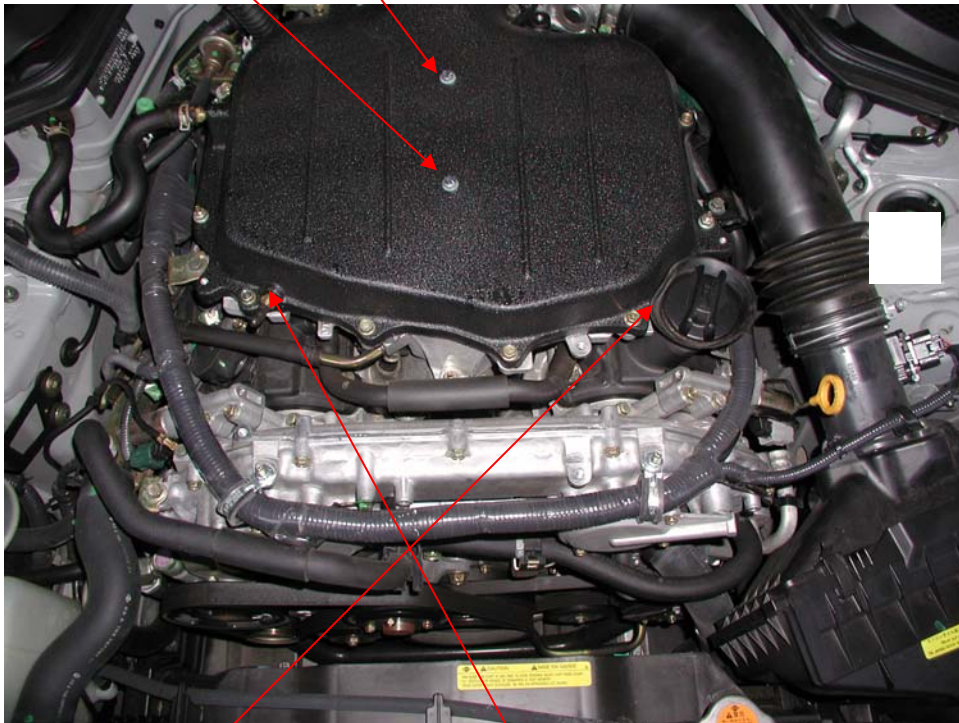
Installation is a reverse of the removal process.

PLEASE MAKE SURE YOU READ THESE IMPORTANT NOTES:

1. Install the 4 short 10mm bolts that came with the plenum into the lower plenum.



2. Carefully install the new plenum using the 2 long bolts with the nylon washers into the 2 holes in the center of the plenum.
3. The **shorter** of the 2 bolts with the nylon washer goes in the hole closest to the front of the car. The **longer** bolt with the nylon washer goes in the other hole in the top of the plenum.

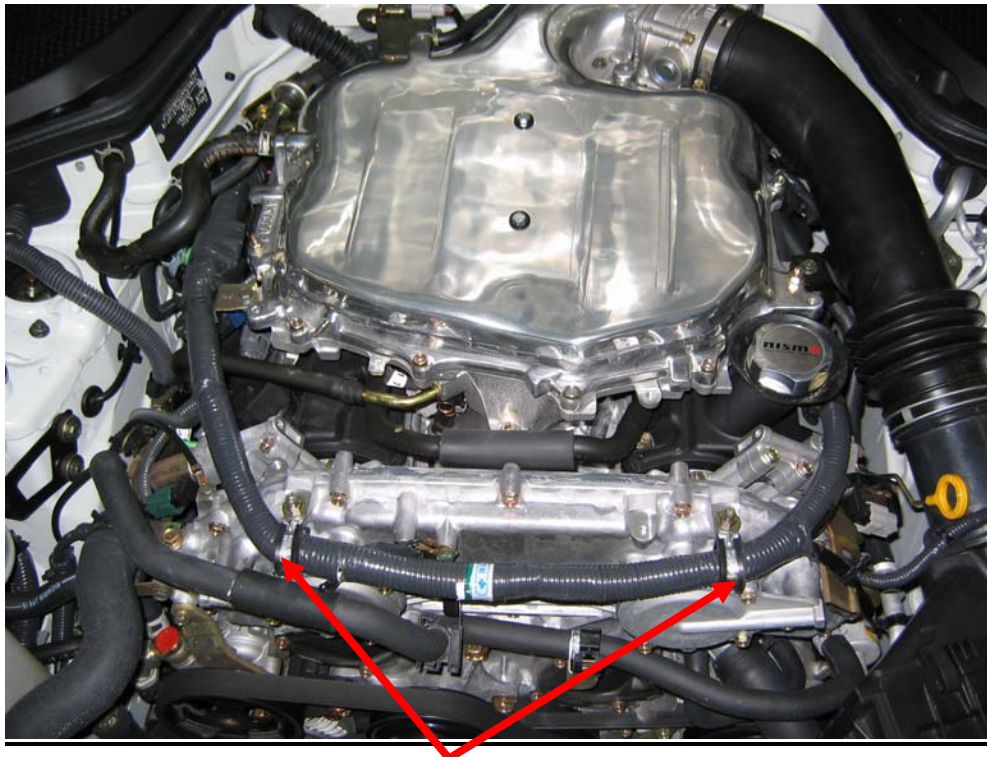
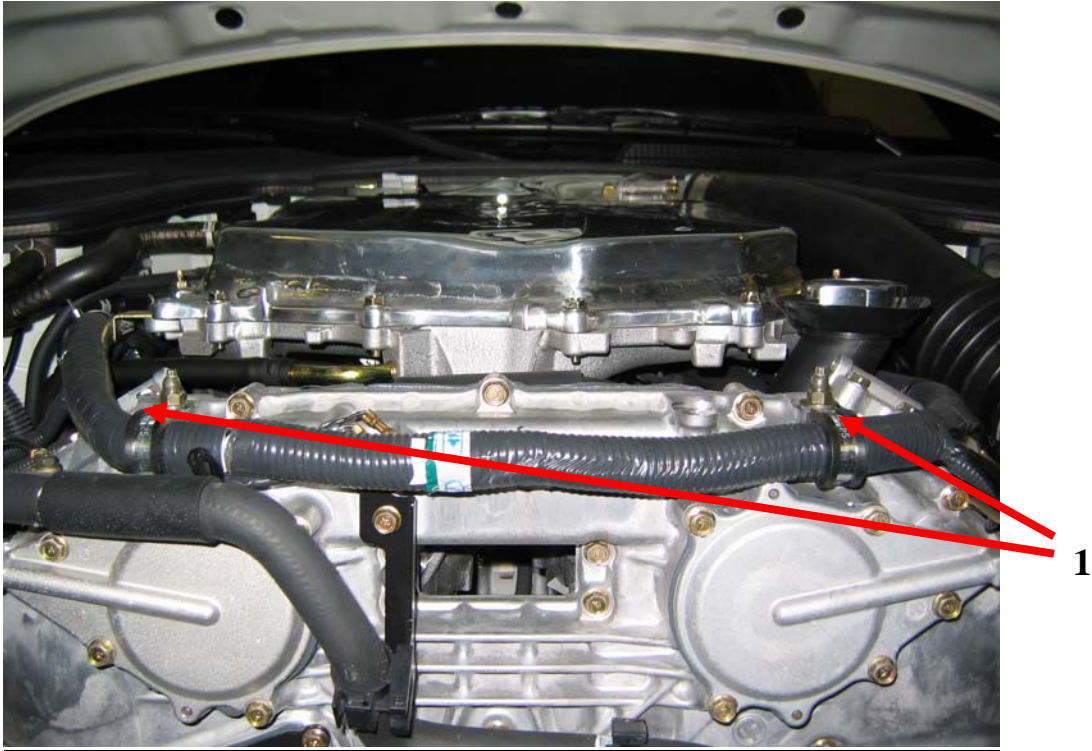


Be careful that the "cuff" surrounding the oil fill cap does not get caught between the upper and lower plenum. Replace the **rubber nipple** from old plenum.

Wire Harness Relocation

Also described in engine cover removal section

1. Relocate the loom toward the front of the car using included wire loom clamps.



After completing the installation,
make sure that the engine RPMs are consistent and smooth,
RPMS should not fluctuate after proper warm-up.

There is no need to reset the ECU after this installation.

ENJOY!

Thanks from Doug and the Crawford Crew!

**Should you have any problems or questions,
please call us at
615-327-4159,
Monday-Friday
7:30-5:30 CST.**