



## **AAM Competition 350Z Angled Plenum Spacer** **INSTALLATION INSTRUCTIONS**

### **WARNING FOR INSTALLER OF THIS PRODUCT**

\*\*\* Product(s) are designed for off-road / competition use only \*\*\*

This AAM Competition, LLC product requires above average mechanical ability to install properly. Installation requires the appropriate tools for tightening and loosening nuts and bolts involved for the installation of this kit. As with all mechanical projects, take appropriate precautions for your personal safety and for the proper care and treatment of the vehicle being serviced. Be sure and read through all directions before attempting.

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## Tools

- Metric deep socket set
- Extensions

## Parts List

- AAM Competition Angled Plenum Spacer (x1)
- Modified OEM Manifold Gasket (x1)
- M6x1x70mm Bolts (x3)
- M6x1x30mm Bolts (x8)
- Washers with Integrated O-rings (x6)
- Standard M6 Washers (x3)
- Spacers (x24)

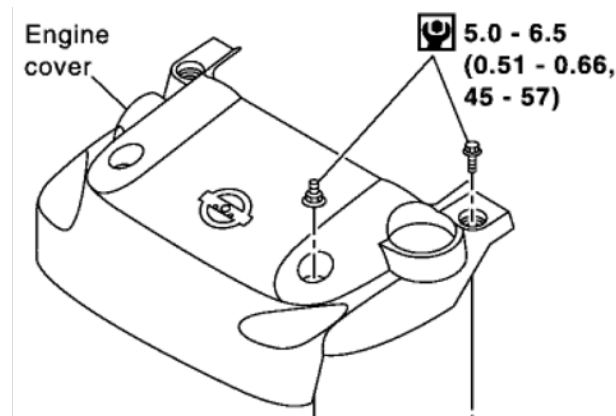
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## Instructions

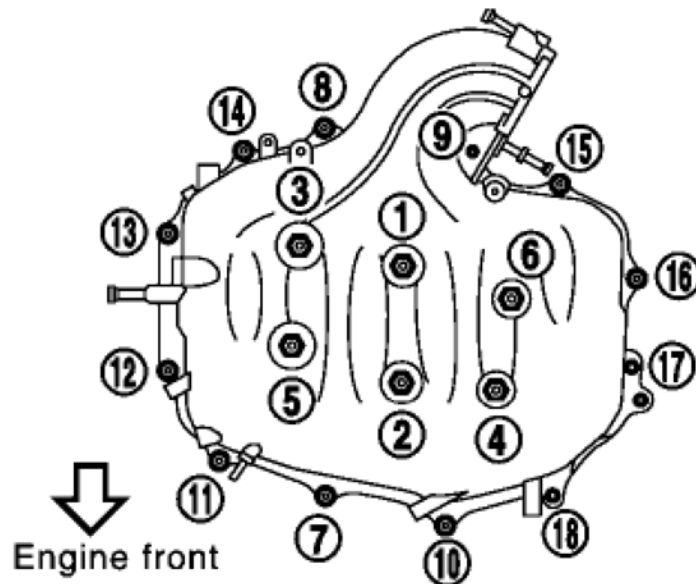
1. Begin by removing the nuts and bolts that secure the strut tower brace to the chassis, as show above. Remove strut tower bar.



2. Remove nuts and bolts that secure the engine cosmetic cover. Remove the engine cover.



3. Remove all bolts from the top of the plenum as shown. Lift plenum upwards slightly (it may be easiest to have a friend help with this portion).



4. Position AAM Competition Plenum Spacer on top of the lower plenum.
  - Make sure that the existing gasket is properly seated.
  - Make sure the taller side of the spacer is facing towards the front of the vehicle.
5. Place the modified OEM Manifold Gasket on top of the AAM Competition Angled Plenum Spacer.
  - Make sure the gasket is seated properly.
6. Lower the upper plenum on top of the AAM Competition Angled Plenum Spacer
  - Make sure the gaskets do not slip or distort.
7. Place bolts into center of plenum
  - Replace bolts 1,3,6 with the supplied M6x1x75mm. Position the standard washer against the head of the bolt then the O-ring Washer under the standard washer.
  - Move the existing OEM M6x60mm bolts 1,3,6 from the back center to the front holes 2,4,5. Position O-ring Washer against the head of the bolt.
  - Begin to thread bolts by hand.
8. Insert bolts 11 through 18 into the appropriate holes
  - Use supplied M6x1x35mm bolts in 7,10,11,13,16,18.
  - Begin threading them in by hand.
  - Bolts 8,14,15 are reused (OEM M6x25mm).
  - Bolt 9 is the original reused OEM bolt.
9. Bolts 12 and 17 are studs. These can be removed with an E5 Torx socket. This is not required as the plenum seals properly with the other 16 bolts.

10. Tighten all bolts to 4.9-6.9 Nm (0.5-0.7 kgf-cm, 44-66 inch lbs)
  - DO NOT OVER-TIGHTEN THE BOLTS
  - USE INCH/POUNDS not POUND/FEET
  - We would recommend tightening by hand and then adding a slight amount of light force to insure the bolt does not come loose.
  - It is very easy to strip the bolt holes. Please use caution.
11. Place engine cover onto plenum and secure.
12. Position strut tower brace into position and check for clearance. Due to differences in manufacturing tolerances you may need to modify the strut bar center link and/or add or remove spacers as needed.
13. Place 2 spacers over the stud on the passenger side and driver side. Lay the bar into position.
14. Place 2 washers underneath one of the bolt holes on the passenger side.
15. While holding the spacers lightly thread the bolt through the hole. Jiggling the bar will help the bolt thread properly. It may be necessary to loosen the center of the bar to get there bolts back in.
16. Repeat this for the two remaining bolts on the passenger side. It may be necessary to loosen the center of the bar to get there bolts back in.
17. Repeat these steps for the driver side.
18. You may need to add spacers to the driver side or widen the strut bar center section if you notice a knocking noise or additional vibration at take-off or when taking a lefthand turn while accelerating.
  - The adjustment on the bar can be used to gain more clearance between the strut bar and the plenum.
  - Loosen the two outer nuts and rotate the center bolt as shown in the picture.

