

Volume

1

XS ENGINEERING, INC.

Department of Research & Development

POWER IC: XS11-0500

Nissan Silvia & 180SX - S13

DEPARTMENT OF RESEARCH & DEVELOPMENT

Power IC System: Nissan Silvia & 180SX - S13 Installation Manual

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Introduction

Thank you for purchasing the XS Engineering Power IC System for the Nissan Silvia & 180SX - S13. Utilizing state of the art design and manufacturing processes, XS Engineering has designed this Power IC System to complement the SR20's inherent ability to operate at extreme boost pressure levels by allowing it to do so without penalty of increased intake air temperature. We strongly recommend that this kit be installed by experienced professionals only. This intercooler system includes piping for use with either the stock or stock replacement turbochargers only. You may have to modify the intercooler pipes if you are using an aftermarket turbocharger. Please take the time to read through and understand this manual fully before you proceed with the installation process.

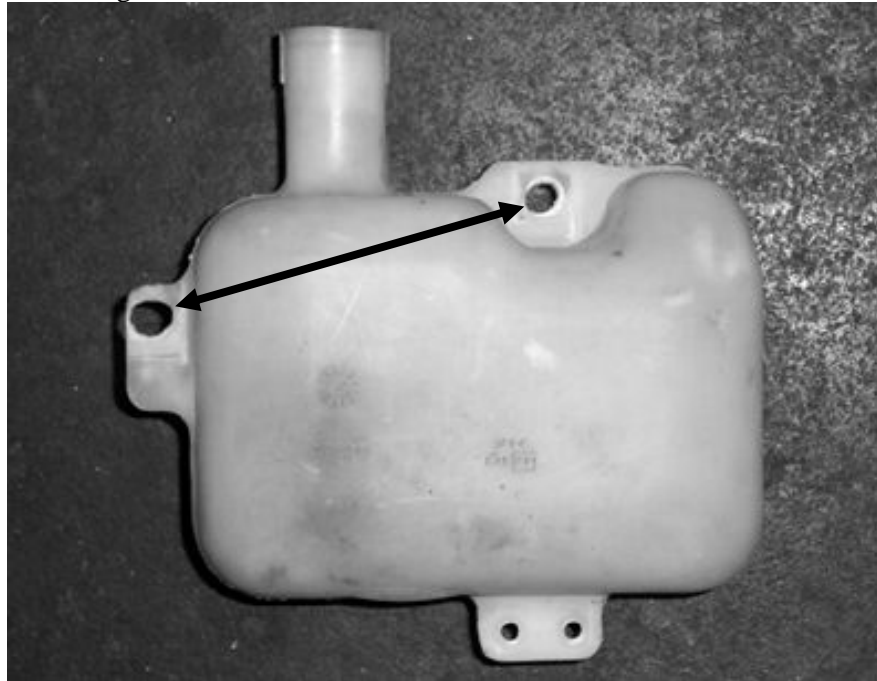
Installation

(NOTE: These instructions are just general guidelines for the removal and reassembly of the factory bumper and bumper reinforcement assemblies. Please refer to the factory service manual for detailed step-by-step directions for the removal and reassembly of these components.)

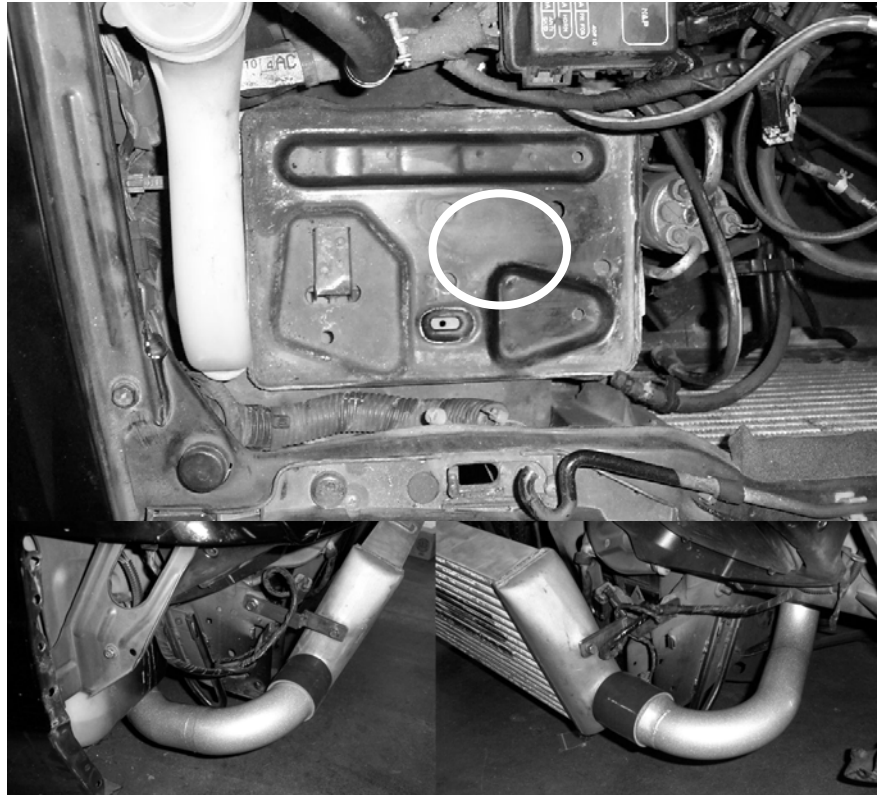
1. Remove the front bumper cover.
2. Remove the bumper reinforcement (this will no longer be used).
3. Remove the stock intercooler system (if applicable).
4. Remove the factory battery and battery tray.
5. Install the new XS Engineering Power IC core using the supplied Left and Right Intercooler Brackets. Loosely fasten the brackets to the core using the M8 x 16 flanged bolts. Use the factory bumper reinforcement bolts to fasten the brackets to the chassis.



6. Open up the two main mounting holes (pictured below) for the Windshield Washer reservoir. The goal is to shift it towards the left to make room for the intercooler pipes you are about to install. Reuse the factory hardware when reinstalling the reservoir.



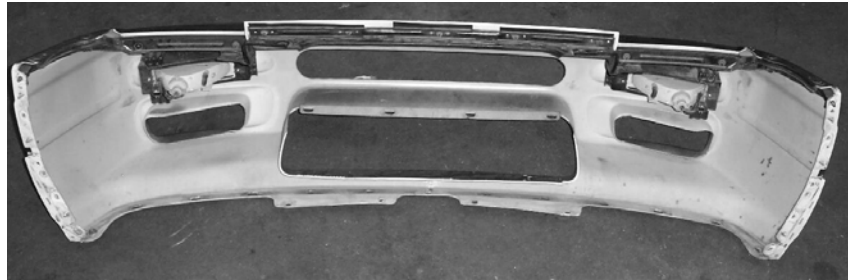
7. Next, install the 3 supplied pipes using the included Silicone Hoses and Hose Clamps. Make sure to use the supplied 2.75" Silicone Hump Hose between the upper intercooler pipe and throttle body. You will also have to cut an opening to fit the throttle body pipe. Look at the picture on the next page as a reference (the white circle approximates the location for the opening – keep in mind that the battery must fit next to the throttle body pipe so do not make the hole too big). Do not fully tighten the assembly. The idea is to loosely fit everything together first. Once that is done, adjust the intercooler core until it is centered on the vehicle and angled properly as shown in the following pictures:



8. When you have all pipes and brackets properly aligned, tighten all of the hose clamps and bolts. The intercooler system should now be fully secured to the vehicle.
9. Install the XS Engineering Battery Upgrade Kit (pn# XS80-0200 available separately) using the battery brackets, j-bolts, and wing nuts included in the kit. Refer to the picture below for proper placement.



10. Now that everything is installed, you must trim the bumper cover to fit the new intercooler system. Use the following picture as a guideline. Ultimately, you may have to trim your bumper differently to attain the proper fit. We recommend 2-3mm of clearance between the bumper cover and any portion of the intercooler system.



11. Confirm that there are no air, vacuum, or boost leaks.
12. Finally, reinstall the bumper cover.