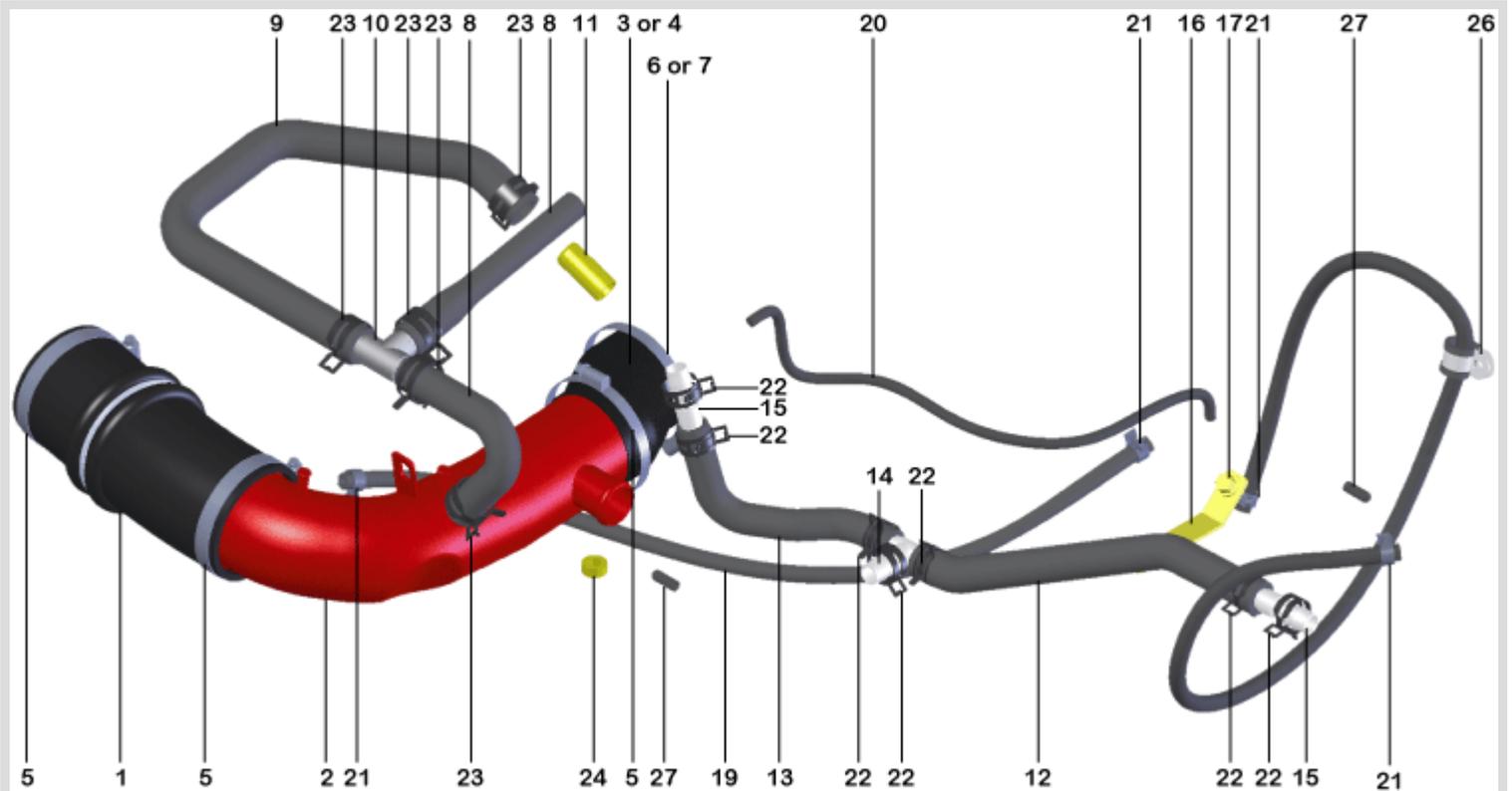


APS Turbo Inlet Duct Installation Guide – Release 1.0

Model No.:	APSWRX-CID/01
Description:	COMPRESSOR INLET DUCT
Application:	WRX/STI 01 ONWARDS

Components - Release 1.0



The above diagram shows APS components in the approximate location and orientation when installed.

Item No.	Part No.	Description	Qty.
1	995-222-000	DUCT - SILICON - AIR INTAKE	1
2	995-022-500	DUCT - S/S - AIR INTAKE	1
3	995-222-800	HOSE - SILICON - COMP INLET - 55/60mm	1
4	995-222-900	HOSE - SILICON - COMP INLET - 3.0"	1
5	000-928	CLAMP - HOSE - 70/90	3
6	000-907	CLAMP - HOSE - 60/80 (9mm wide)	1
7	000-908	CLAMP - HOSE - 70/90 (9mm wide)	1
8	995-994-100	HOSE - BREATHER - 3/4"/0.5"	1

9	995-994-200	HOSE - BREATHER - 3/4" - STI	1
10	000-947-200	TEE PIECE - 3/4" BARB - STI	1
11	995-102-200	ADAPTOR - SENSOR VENT	1
12	995-994-300	HOSE - BREATHER - 5/8" - STI - LHS	1
13	995-994-400	HOSE - BREATHER - 5/8" - STI - RHS	1
14	000-947	TEE PIECE - 5/8" BARB - STI	1
15	995-994-500	JOINER - ST. - 5/8" - STI	2
16	995-073-850	BRACKET - REGULATOR MTG	1
17	000-011-100	BOLT - HEX - 8mm x 1.25 x 16mm (SEMS)	1
18	000-853-062	HOSE - PUSHLOC - 5 x 620mm	1
19	000-853-113	HOSE - PUSHLOC - 5 x 1130mm	1
20	000-827-045	HOSE - RUBBER -VACUUM 3.00mm x 450mm	1
21	000-916	CLAMP - HOSE - FUEL INJECTION (14)	4
22	000-911-023	CLAMP - HOSE - SPRING, 5/8" HOSE	7
23	000-911-027	CLAMP - HOSE - SPRING, 3/4" HOSE	5
24	000-992-150	SPACER - 18mm O.D. x 8.5mm I.D. x 7mm	1
25	000-987-178	TIE STRAP-NYLON 4.8mm x 178mm	4
26	000-931	CLAMP - HOSE SUPPORT 15/20mm	1
27	000-939-822	CAP - BLANKING 8mm I.D. x 22mm	2

Installation Guide - Release 1.0

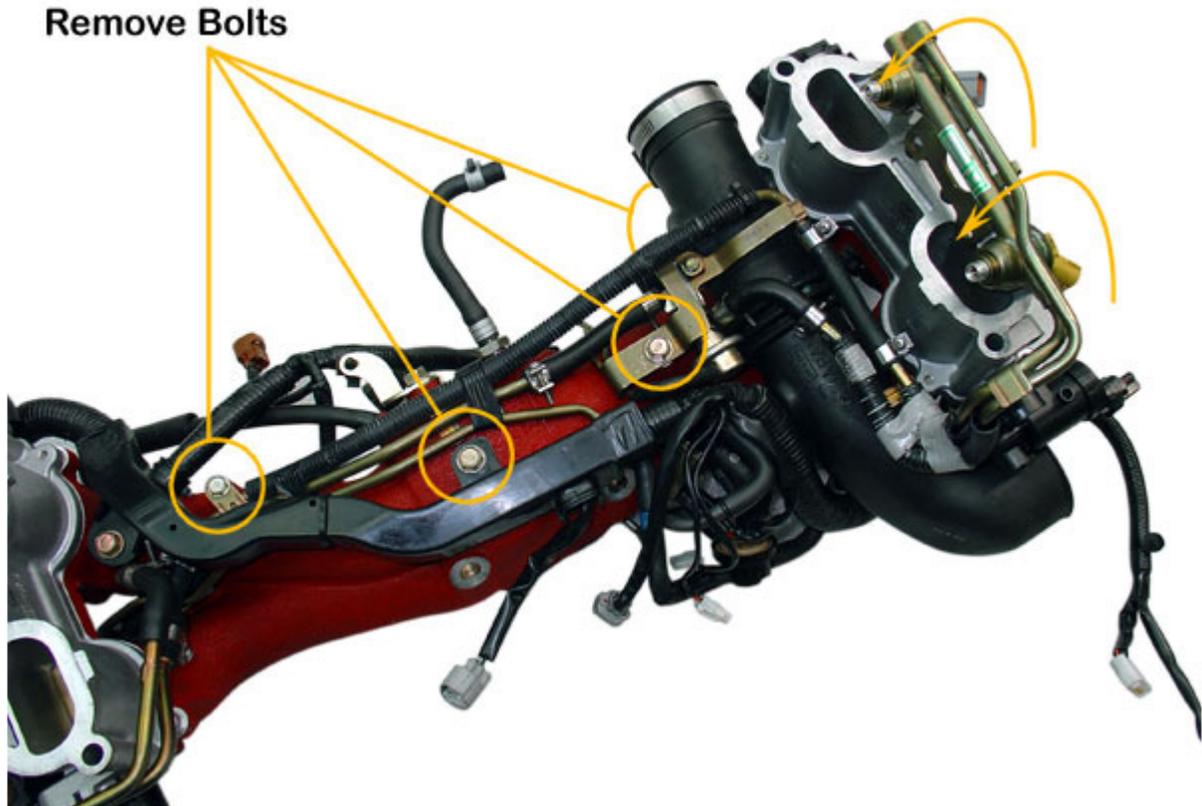
The installation of the APS Compressor Inlet Duct requires the removal of the intake manifold assembly (including the TGV assemblies). This is not a difficult operation when performed in accordance with the Factory Service Manual instructions relevant to your Subaru WRX or STI model.

APS strongly recommends that you follow the Factory Service Manual.

The following images and written guide are based around the 04/05 U.S. specification STI. The APS Compressor Inlet Duct can be installed on 01 onwards WRX or STI, U.S. or International specification, however detail variations in the crankcase breather line configuration and modifications will be required. Some of these are referenced however in all cases, they are very simple and straightforward when the stock configuration is used as a guide.

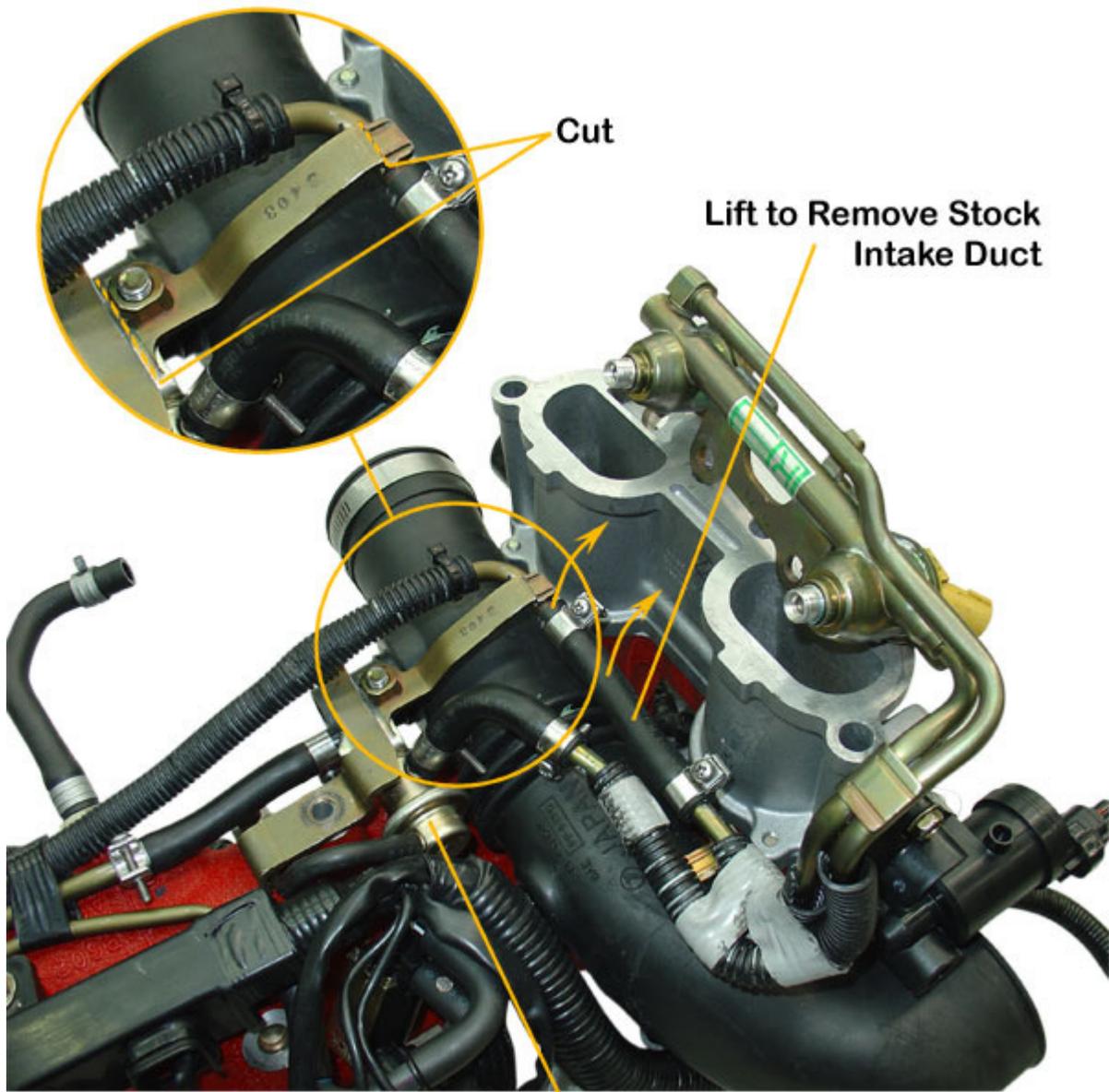


1. Remove the stock intake manifold assembly (includes the TGV units and stock compressor inlet duct) in accordance with the Factory Service Manual.
- 2.



Remove the stock fuel line retaining bolts. Remove the stock fuel rail retaining bolts and rotate the fuel line as shown above.

3.



Remove Stock Fuel Pressure Regulator

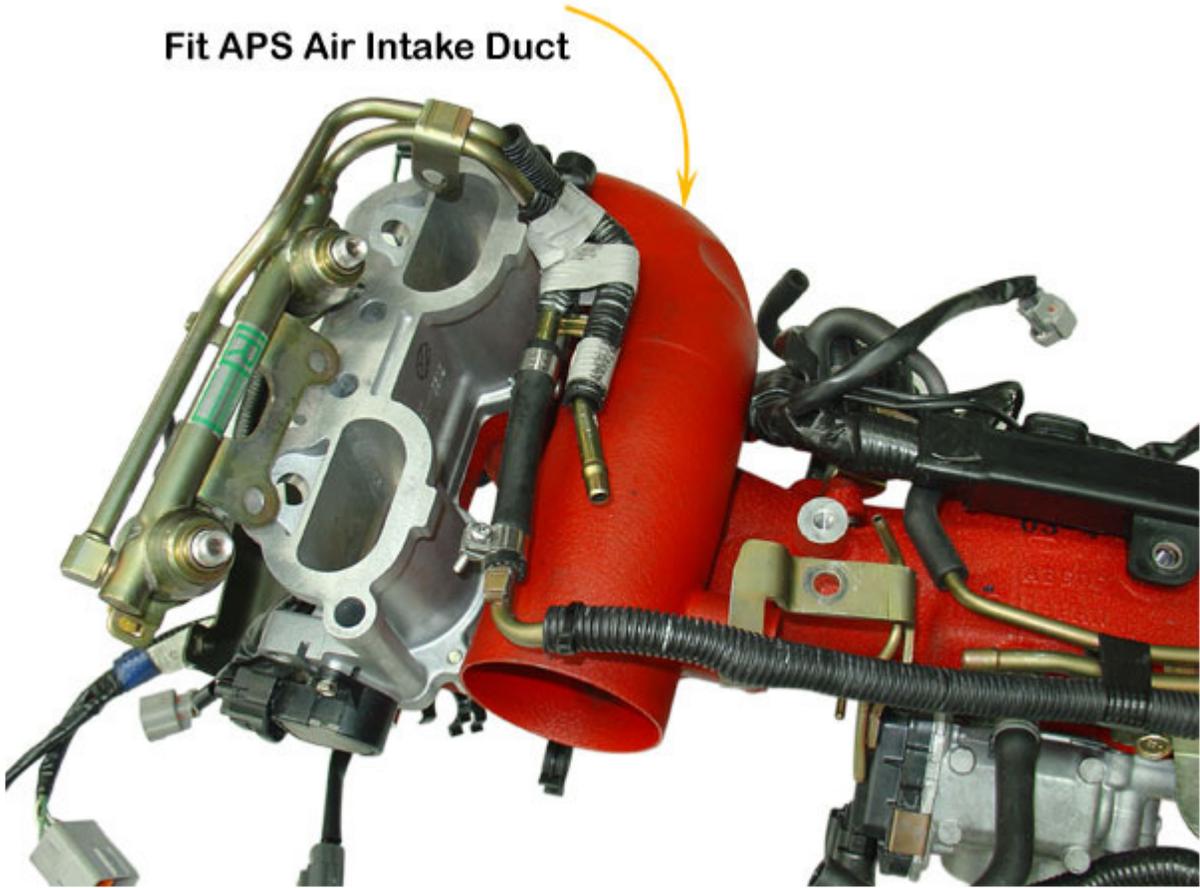
Remove and discard the stock rubber fuel lines connected to the stock fuel pressure regulator. Remove the stock fuel pressure regulator from its stock mounting bracket.

Cut the stock fuel pressure regulator mounting bracket as shown and discard the cut piece.

Whilst lifting the fuel line shown above for clearance, remove the stock plastic compressor inlet.

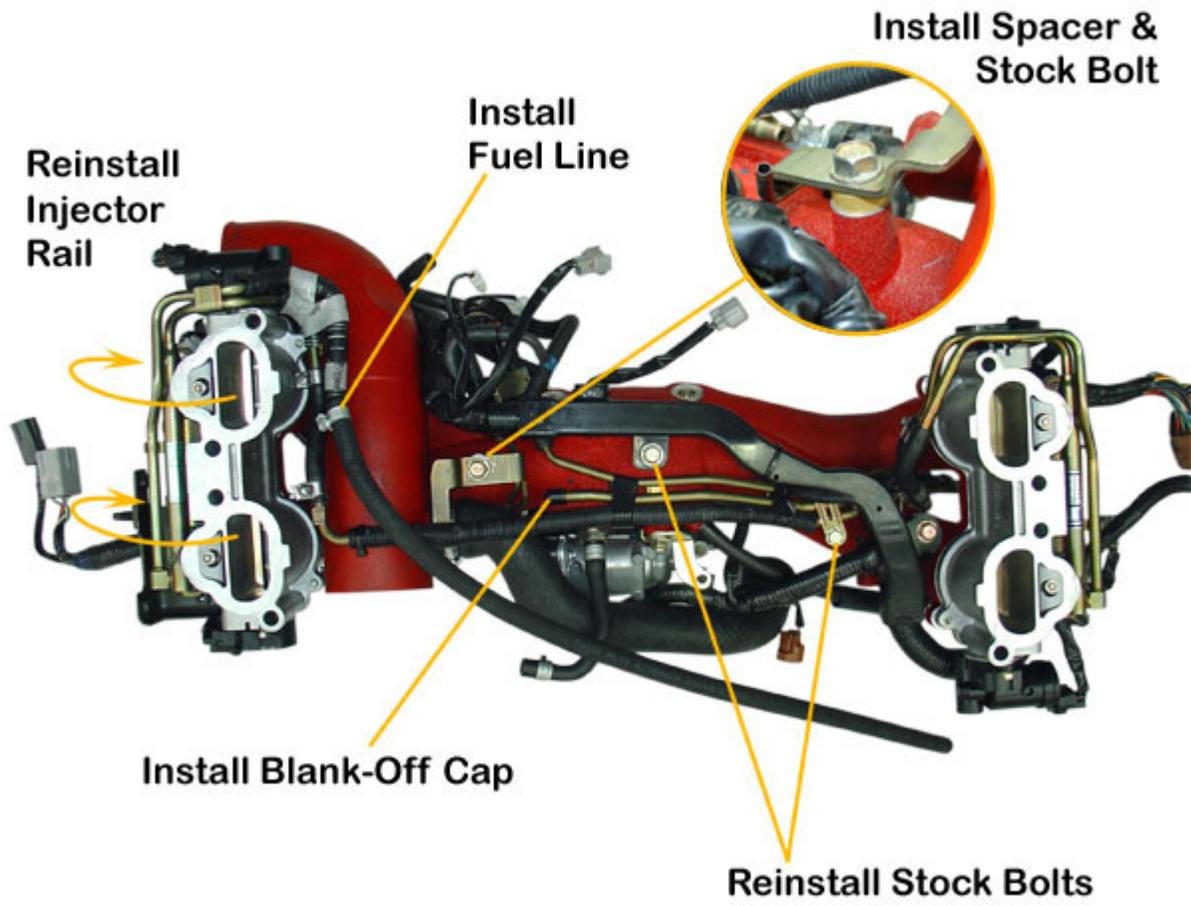
4.

Fit APS Air Intake Duct



Install the new APS Compressor Inlet Duct as shown but **DO NOT** tighten the attaching bolt at the front of the stock inlet manifold.

5.

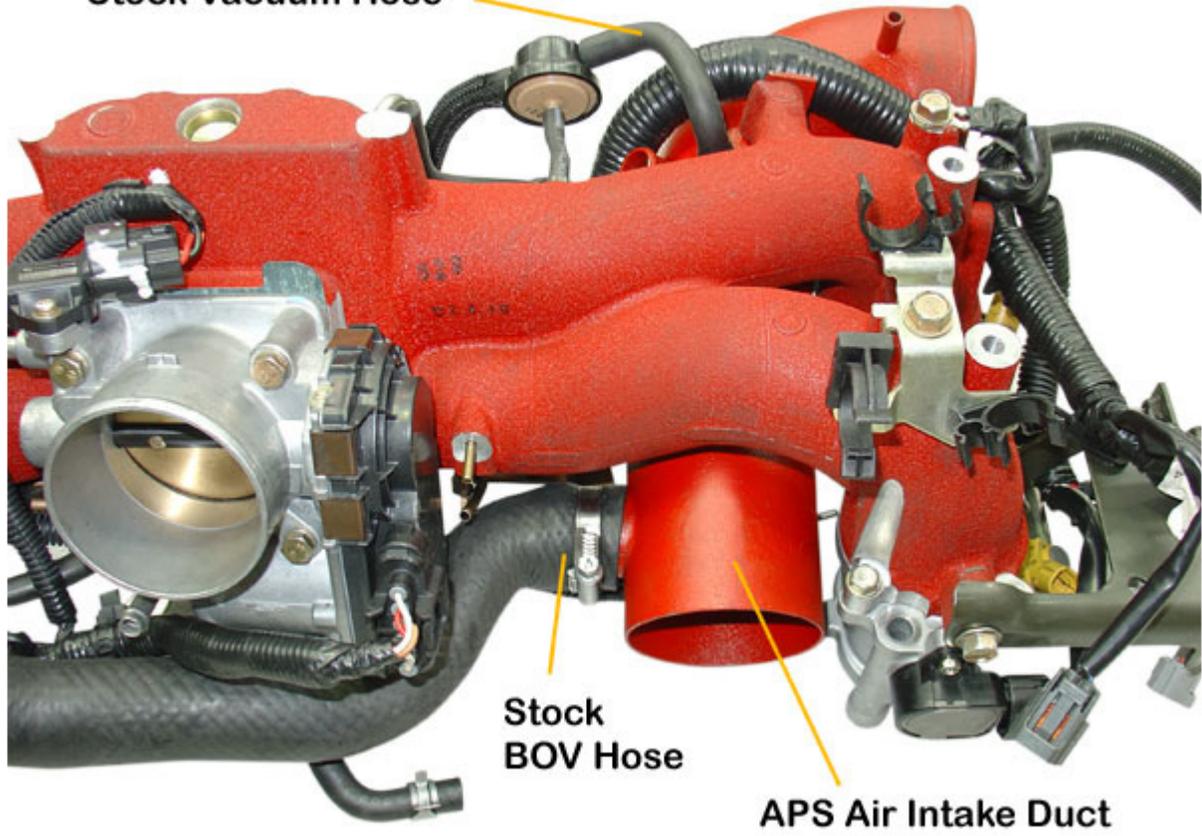


Reinstall the modified stock fuel line assembly ensuring that the spacer (Item 24) is installed between the modified fuel line bracket and intake manifold as detailed above.

Install new fuel line (Item 18) and blank off cap (Item 27) as shown.

6.

Stock Vacuum Hose

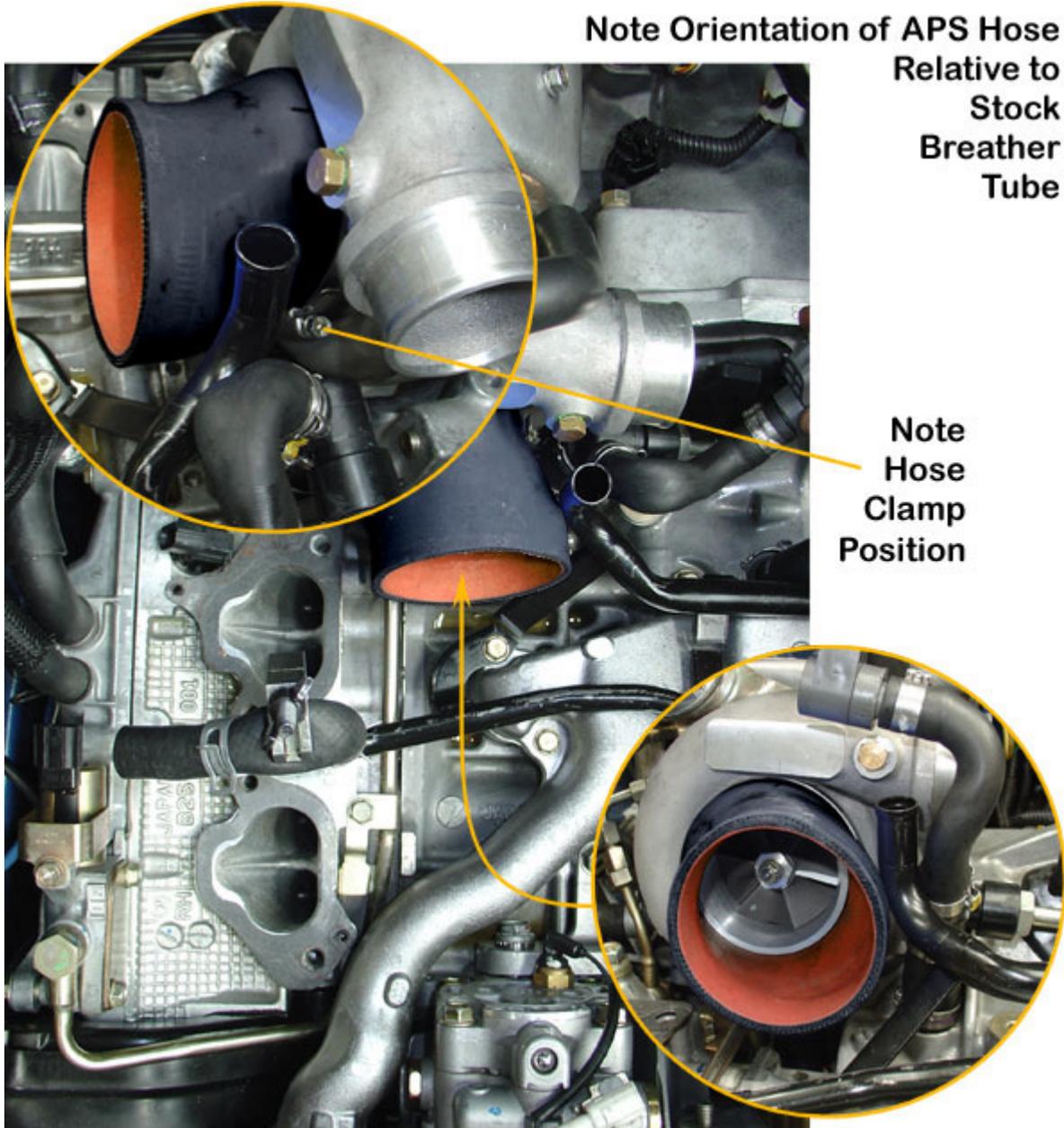


**Stock
BOV Hose**

APS Air Intake Duct

Re-Install the stock compressor by-pass (B.O.V.) hose and the stock small vacuum hose at the front of the intake manifold.

7.



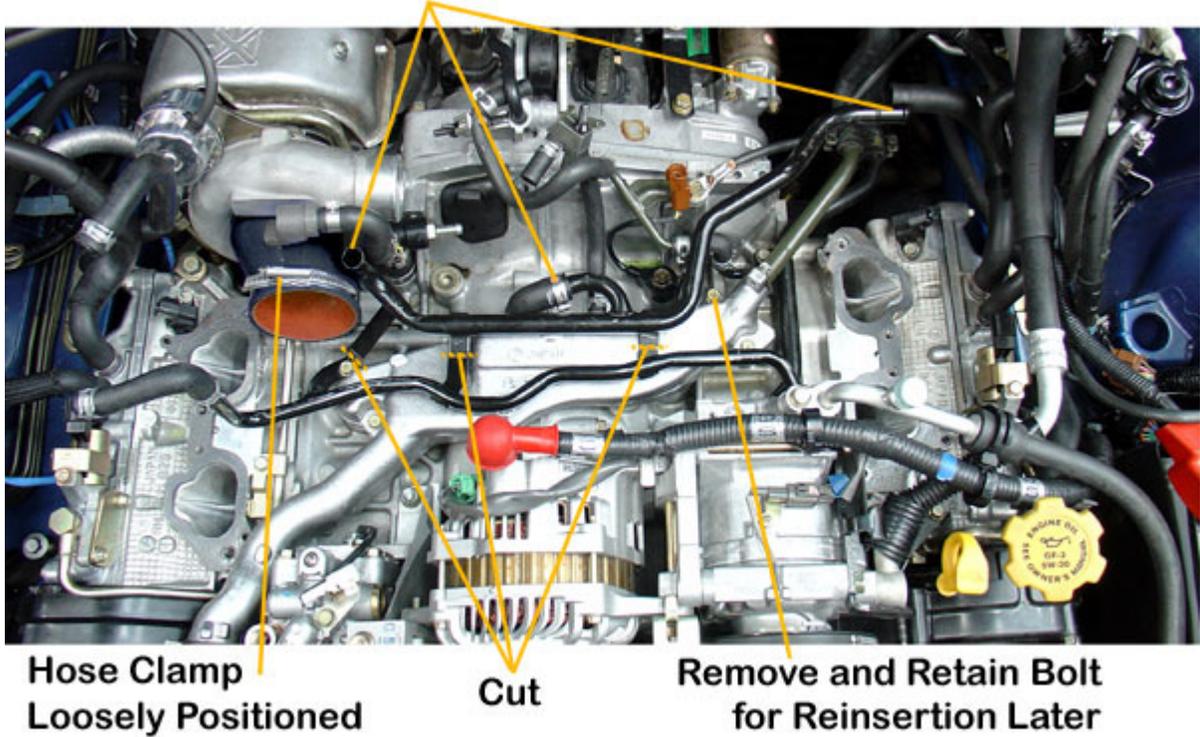
Install the silicon compressor inlet hose (Item 3 or Item 4 depending upon your turbocharger inlet size) - Item 4 shown.

Note orientation of silicon hose relative to stock breather tube
Note hose clamp position to facilitate clamp adjustment after completion of installation.

- Item 3 - for stock or near stock compressor inlet connections
- Item 4 - for 3" High Flow compressor inlet connections

8.

Disconnect Stock Breather Hoses

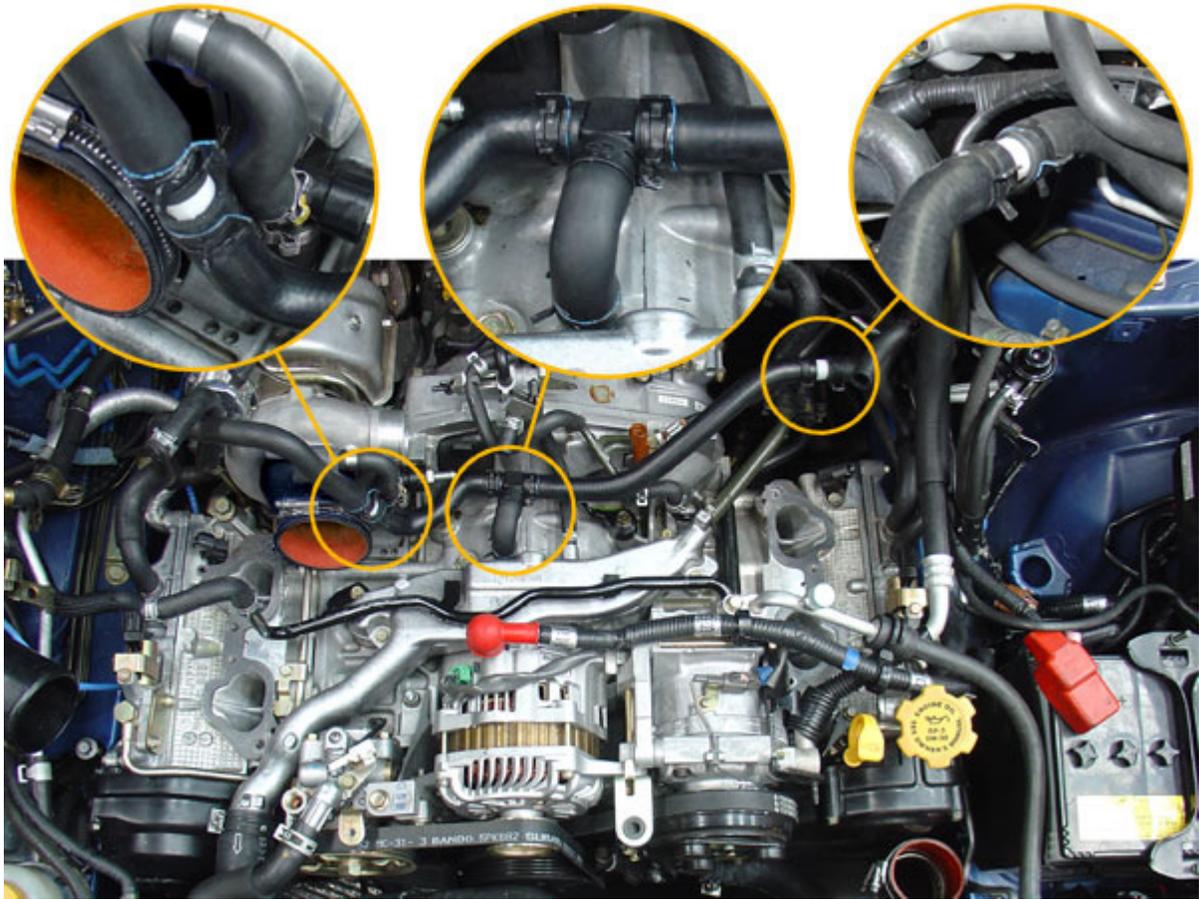


Position second hose clamp loosely over the silicon compressor inlet hose orientated as shown above.

Remove the stock breather line and cut the mounting brackets as indicated above. Discard the breather line. Note this is an STI only component and therefore not relevant if installing on a WRX model.

Reinstall bolt that was used to support the stock breather tube (that has now been discarded).

9.



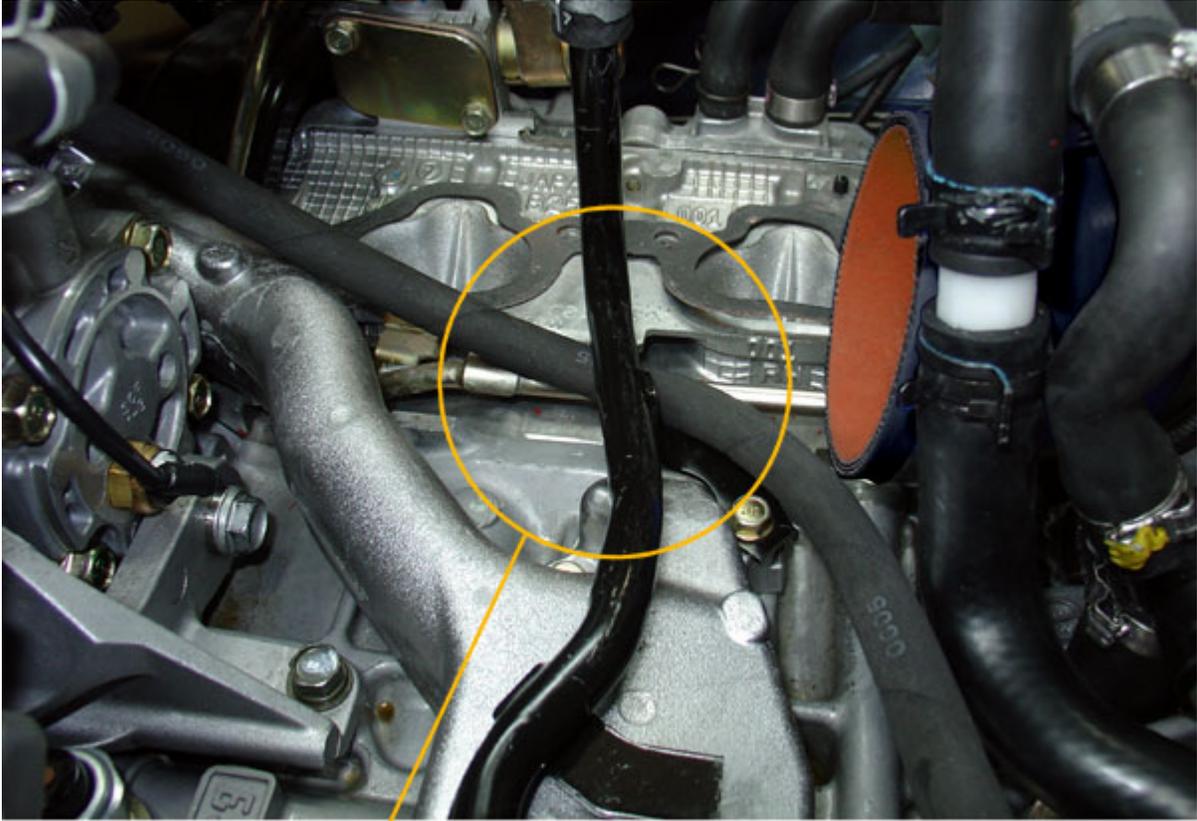
The previously removed stock STI breather line is replaced by a combination of stock and new molded hoses.

Install tee piece (Item 14) in the stock rubber elbow as shown. Install molded hoses (Item 12) on LHS of tee piece (Item 14) and molded hose (Item 13) on RHS of tee as shown.

Install joiners (Item 15) between these hoses and stock breather hoses at either outboard end.

Retain all hoses using hose clamps (Item 22).

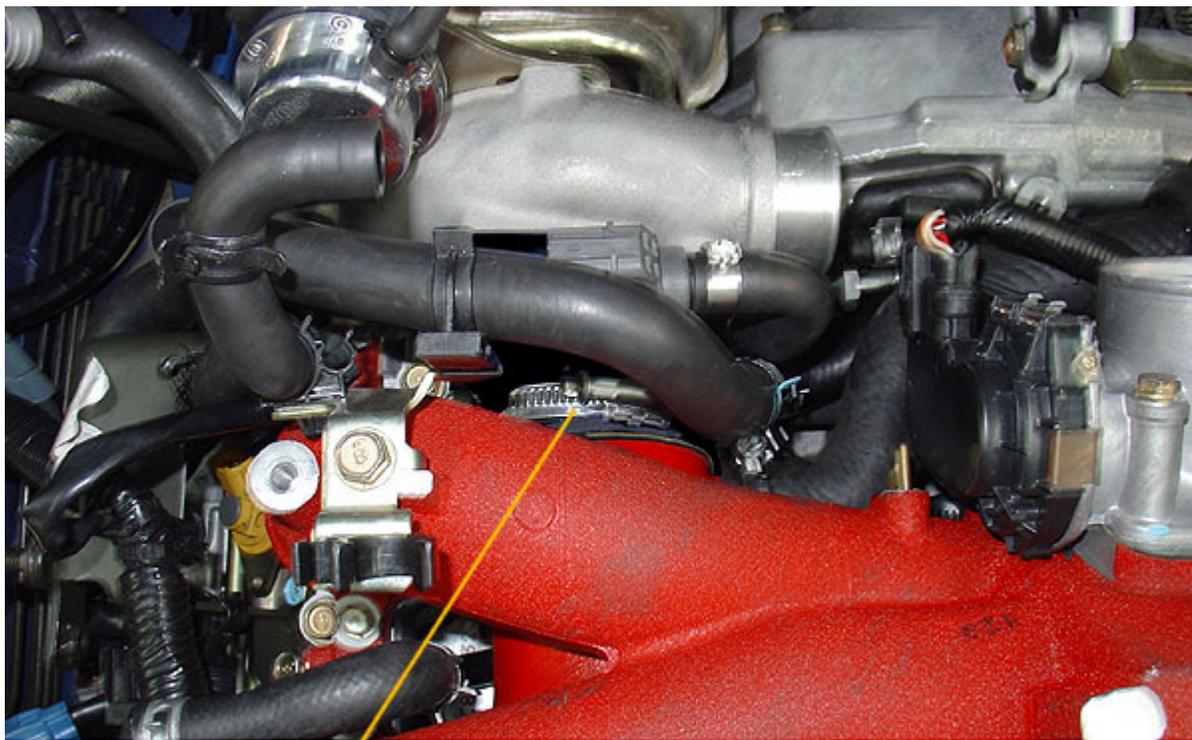
10.



APS Fuel Hose Under Stock Water Pipe

The entire stock intake manifold assembly with new APS compressor inlet duct can be re-installed in accordance with the Factory Service Manual instructions - whilst paying particular attention to the fuel return hose (Item 18) previously installed. This fuel return hose must be routed as shown above.

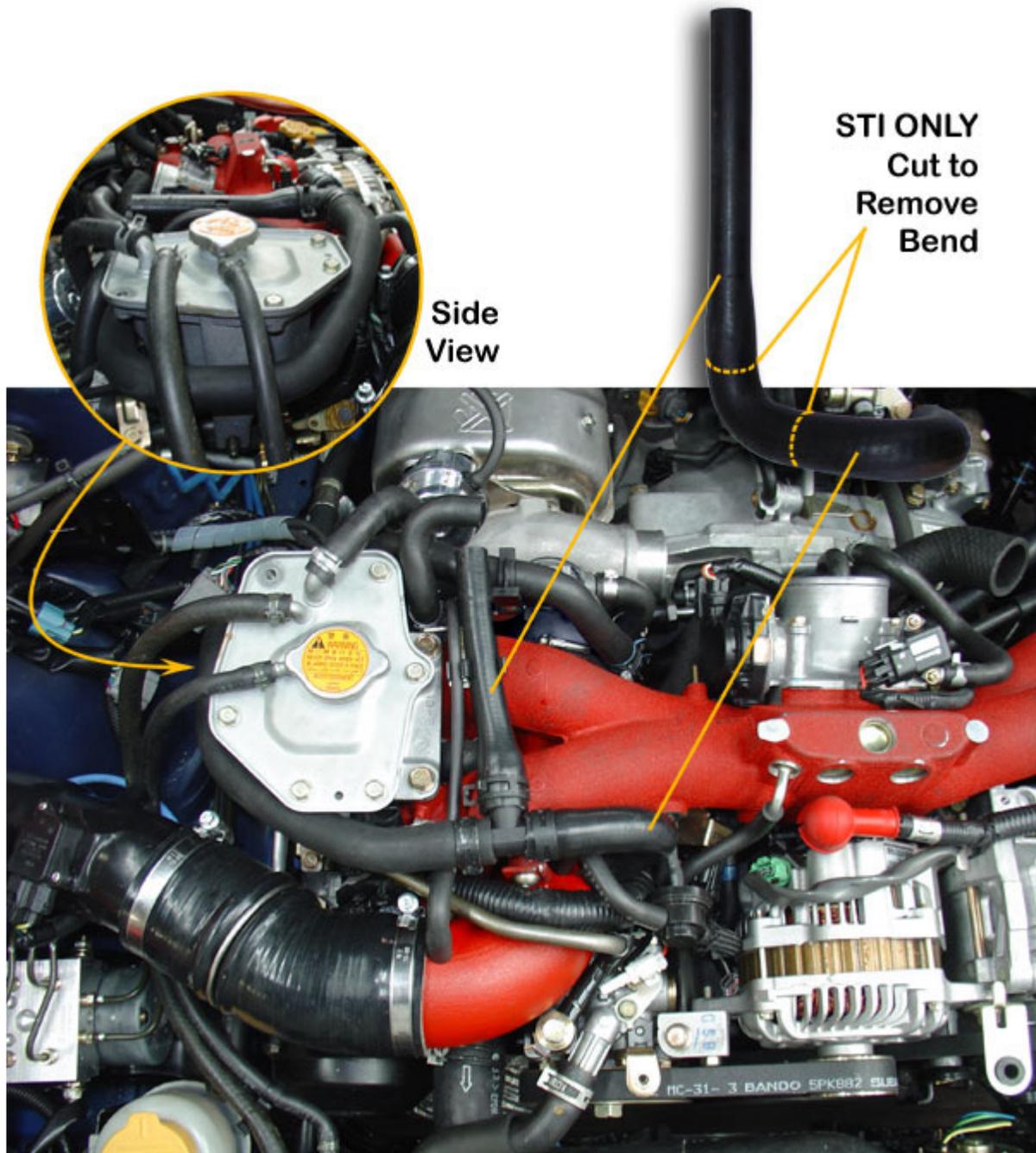
11.



APS Hose Clamp - Note Orientation

Tighten hose clamp (Item 5) previously loosely positioned over the silicon compressor inlet hose as shown.

12.



For WRX, install 3/4" - 1/2" breather hose (Item 8) between the large 3/4" barb on the front of the compressor inlet duct (Item 2) and the breather tube connected across the front of the top mount intercooler.

For STI, the breather hose (Item 8) must be cut as shown above. The tee piece (Item 10) is then installed as shown. This delivers provision for STI only breather hose (Item 8) to be installed as shown.

Retain all hoses with clamps (Item 23).

13.

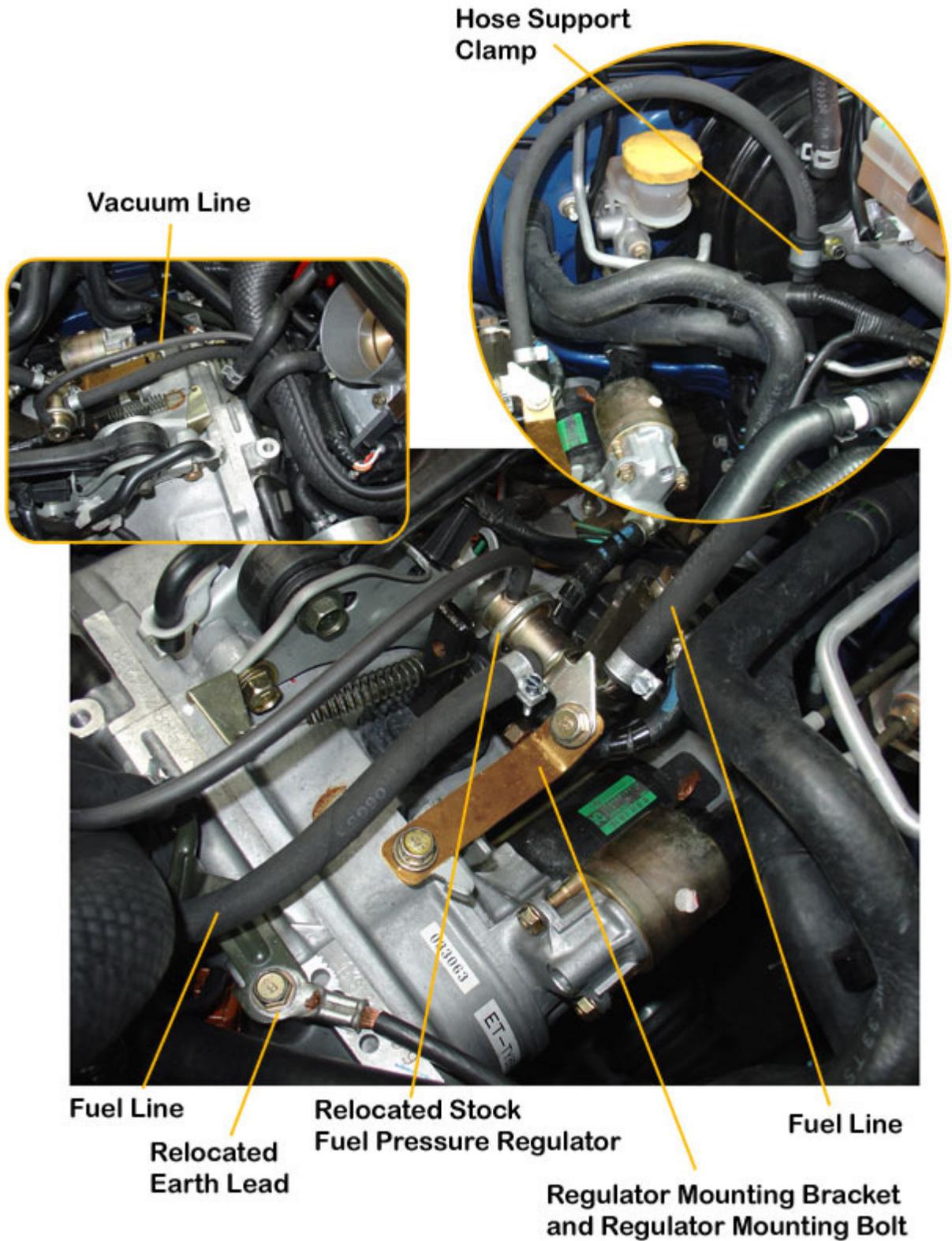


Stock Sensor Vent

APS Adaptor

STI only breather hose (Item 9) is connected to the stock sensor vent immediately in front of the turbocharger compressor housing using adaptor (Item 11) as shown.

14.



Relocate the stock engine earth lead as shown in the following detail. Install new fuel pressure regulator mounting bracket (Item 16) as shown.

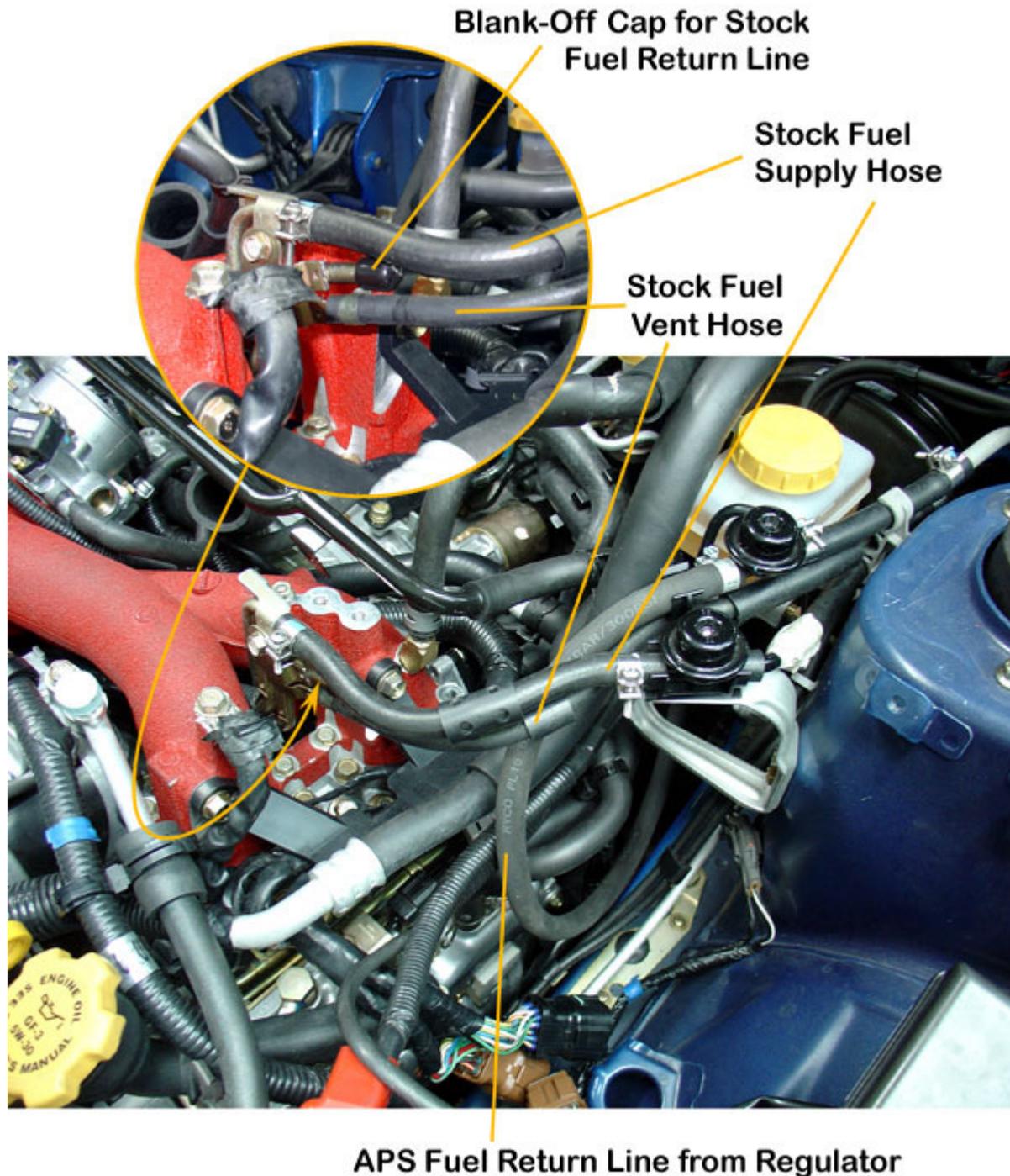
Install the stock fuel pressure regulator to the new bracket using 8mm hex bolt (Item 17).

Connect fuel return hose (Item 18) previously installed to the stock fuel pressure regulator as shown. Retain with hose clamp (Item 21)

Install fuel return hose (Item 19) from the stock regulator to the stock metal line returning to the fuel tank, at a point immediately adjacent to the front left shock tower. Retain with hose clamp (Item 21) and support with hose support clamp (Item 26) to the brake master cylinder as shown.

Install new vacuum sensing hose (Item 20) between the relocated stock fuel pressure regulator and the stock sensor port barb in the stock intake manifold.

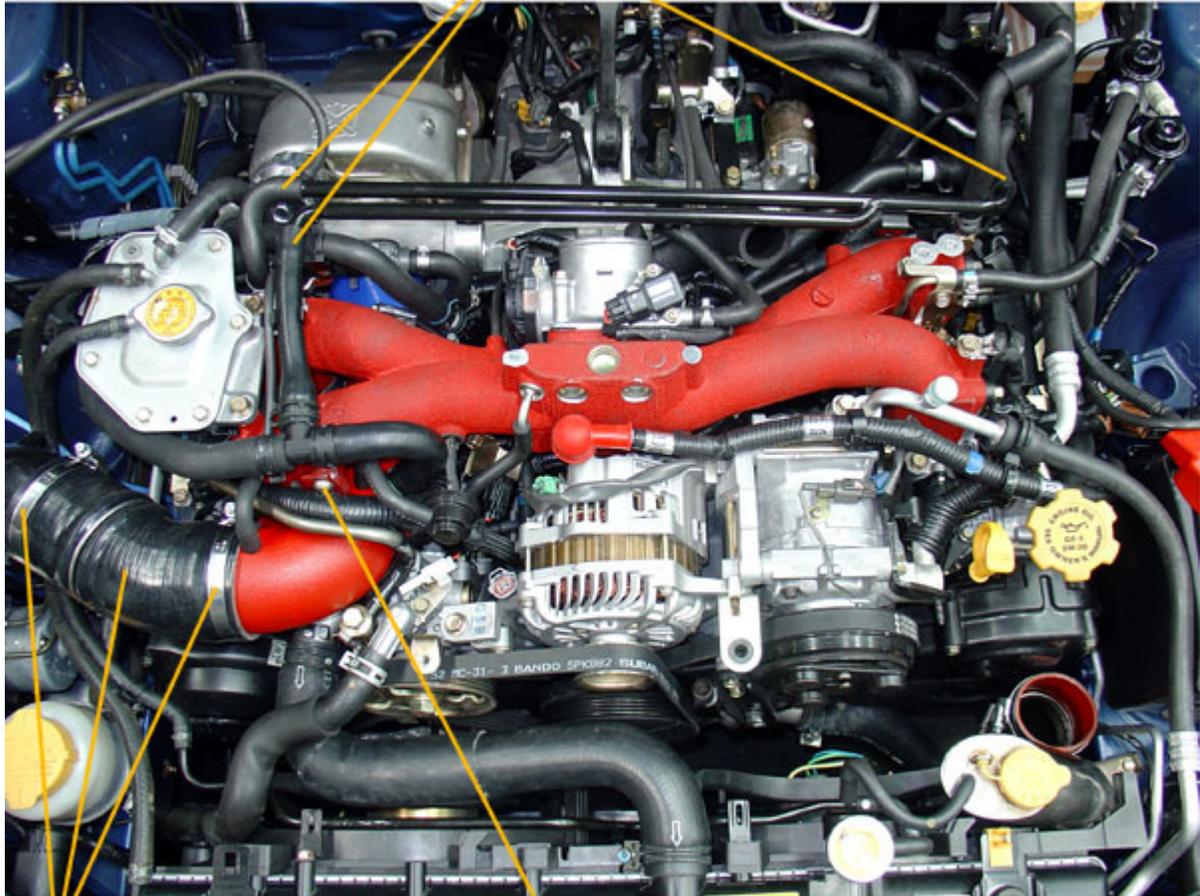
15.



Detail of fuel hose connections including blank-off cap (Item 27) installation onto stock fuel return line.

16.

Refit Breather Hoses



**APS Silicon
Inlet Hose & Clamps**

Mounting Bolt

Tighten bolt mounting compressor inlet duct (Item 2) to the stock intake manifold.

Install new silicon air intake hose (Item 1) between the air cleaner (or cold air intake) and compressor inlet duct (Item 2). Retain silicon hose with hose clamps (Item 5) as shown.

17. Check back over all connections and hose routing to ensure that all components are secure. Check any other accessories that may have been disturbed during this installation.