



**Intercooler Upgrade Kit
Kit p/n 11615**

2008-2012 Subaru WRX





READ THIS FIRST: Study these instructions completely before proceeding. Engine and / or turbocharger damage may occur if any component within these instructions is improperly installed. Turbonetics, Inc or any of its distributors cannot be held responsible for damages as a result of negligent or improper installation. This complete turbocharger system can be installed using common tools and automotive procedures, but installer must have a thorough knowledge of automotive engine operation and feel comfortable working on the vehicle. If in doubt, contact Turbonetics' technical support staff at 805-581-0333, between the hours of 8:00AM and 5:00PM PST, Monday through Friday.

Remove the intercooler (I/C) from its carton and inspect for any obvious physical damage. All kit components are thoroughly inspected and carefully packaged prior to shipment from the factory. If any shipping damage is evident, contact your supplier and request that they process a claim with the shipper involved. Be sure to review the parts list to verify that you have all necessary system components to proceed. If any components in the parts list are missing, contact Turbonetics' customer service staff.

The information contained in this publication was accurate and in effect at the time the publication was approved for printing and is subject to change without notice or liability. Turbonetics reserves the right to revise the information presented herein or to discontinue the production of parts described at any time.

SAFETY REQUIREMENTS: It is recommended to follow these precautions.

- Always wear safety glasses & gloves.
- Turn the ignition switch to the OFF position & disconnect the batteries.
- Always use properly rated jack stands when working under the vehicle.
- Prevent unexpected vehicle movement by using wheel chocks and/or parking brake.
- Operate the vehicle only in well ventilated areas.
- Do not smoke or use flammable items near or around the vehicle's fuel system.
- Keep hands, clothing and other objects away from moving parts when engine is running.

SUPPLIES: It is recommended to have the following items before beginning installation.

- Subaru factory service manual, for your model year
- A large table or bench, and plenty of adjacent available workspace
- Standard selection of automotive tools, primarily metric sizes

ESTIMATED INSTALL TIME: 2 Hrs.

TOOLS REQUIRED

- 1.) 6mm , 8mm, 10mm Sockets
- 2.) Socket Extension
- 3.) Ratchet
- 4.) Hose Pick



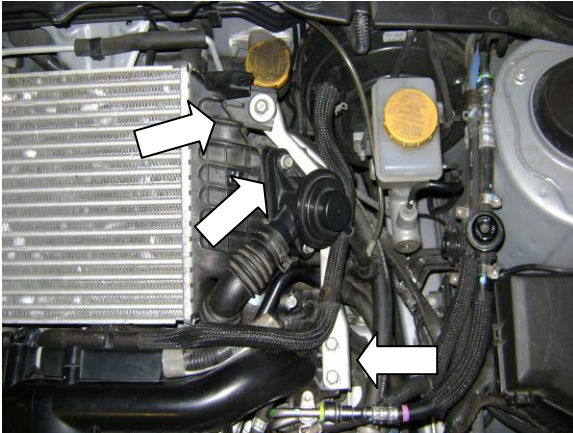
PARTS LIST

<i>Part Number</i>	<i>Description</i>	<i>Quantity</i>
70075	Intercooler Assembly	1
11649	Flange w/ 2.0" elbow, weld'd ass'y	1
11752	Hardware Kit, misc parts	1
22297	Support bracket, intercooler rear	1
22298	Support bracket, intercooler front	1
22299	I/C air duct, weld'd ass'y	1
22304-4	Silicone hose coupling, 2.0"	1
22305-4	Silicone transition hose, 2.50-2.75"	1
30613	Hose clamp, liner style, #028	2
30615	Hose clamp, liner style, #036	1
30616	Hose clamp, liner style, #044	1
31397	Rubber edge trim	24 inch
31399	Rubber edge grip seal	16 inch
60219	Install instructions	1

INSTALLATION

- 1.) Remove (2) M6 bolts, vacuum and discharge hose from line from factory bypass valve and remove valve. Remove (3) M8 bolts on I/C mounting bracket and remove bracket. SEE FIGURE 1

FIGURE 1





- 2.) Remove (2) M8 bolts holding factory I/C to turbo. Loosen clamp on I/C outlet and remove factory I/C. SEE FIGURES 2 and 3

FIGURE 2

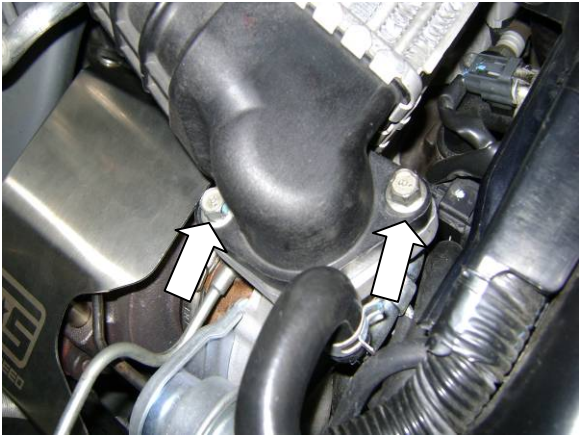


FIGURE 3



- 3.) Loosen clamp holding factory coupler to throttle body and remove coupler. SEE FIGURE 4

FIGURE 4



- 4.) Remove M8 bolt from top of transmission and M10 bolt from clutch slave cylinder. SEE FIGURE 5 and 6

FIGURE 5

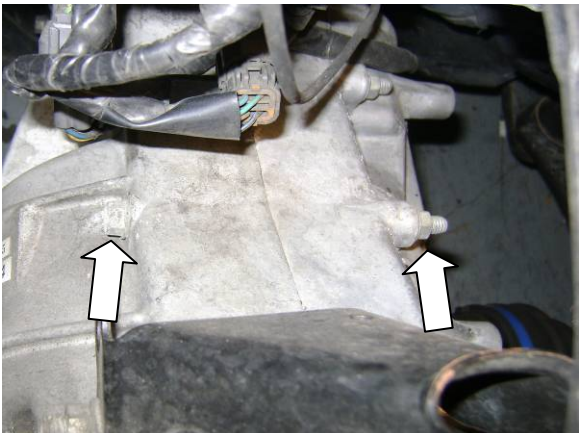
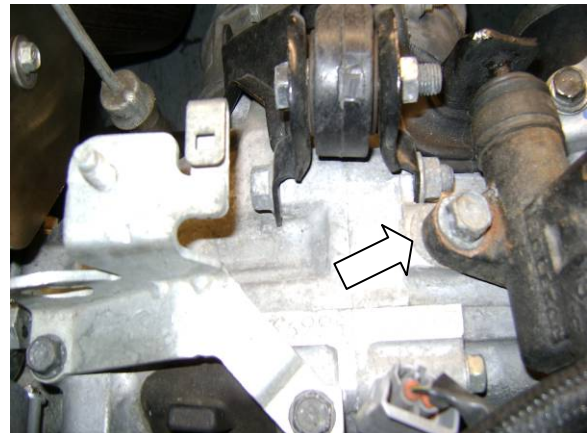


FIGURE 6





- 5.) Remove factory rubber air duct from hood. SEE FIGURE 6 and 7

FIGURE 6

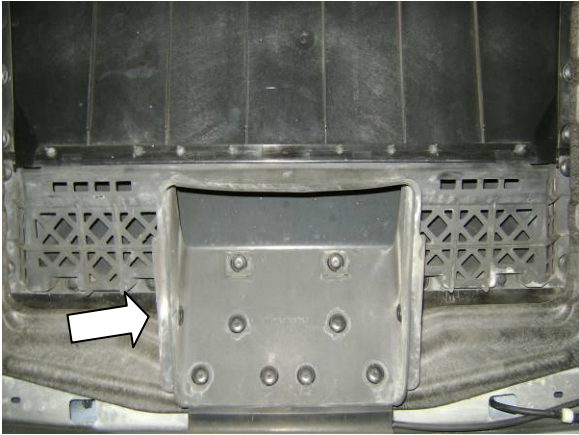
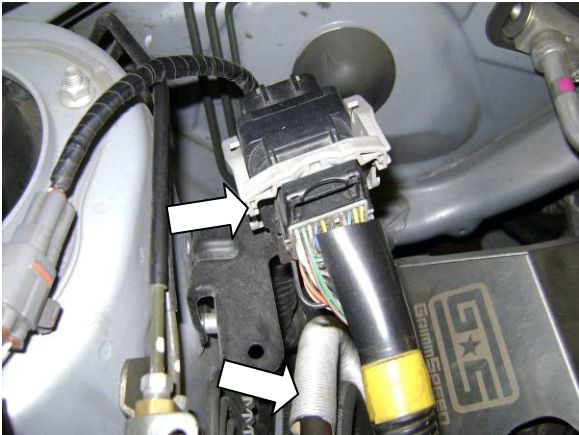


FIGURE 7



- 6.) Unbolt bracket holding wire harness connector to fender well. Zip Tie connector to lower location above A/C line. SEE FIGURE 8

FIGURE 8



- 7.) Remove bolt that attaches the factory bypass valve plastic tubing to back-side of intake manifold. This is to allow the tubing some freedom of movement, so the bolt won't be re-used. SEE FIGURE 9.

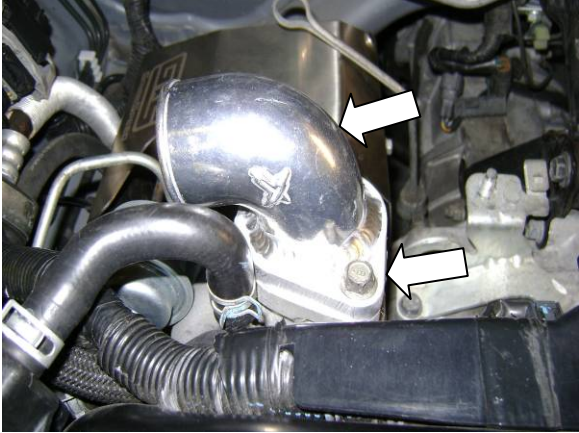
FIGURE 9





- 8.) Bolt 2.0" hose (turbo outlet) adapter to turbo compressor outlet using (2) factory M8 bolts and O-Ring. SEE FIGURE 10

FIGURE 10



- 9.) Loosely install transition hose and #044 hose clamp onto throttle body. SEE FIGURE 11

FIGURE 11



- 10.) Attach front & rear I/C support brackets to I/C using supplied M6 bolts and lock washers. Leave bolts slightly loose. SEE FIGURE 12 and 13

FIGURE 12

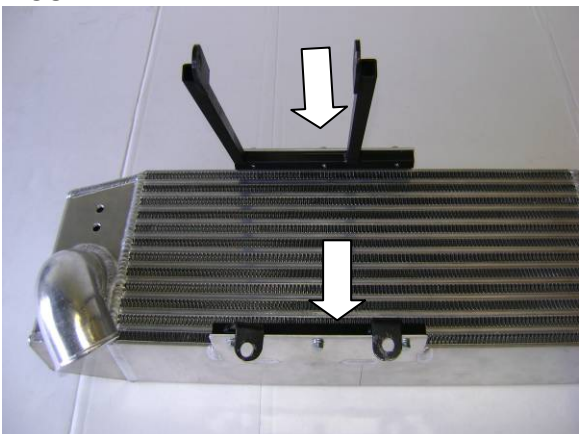
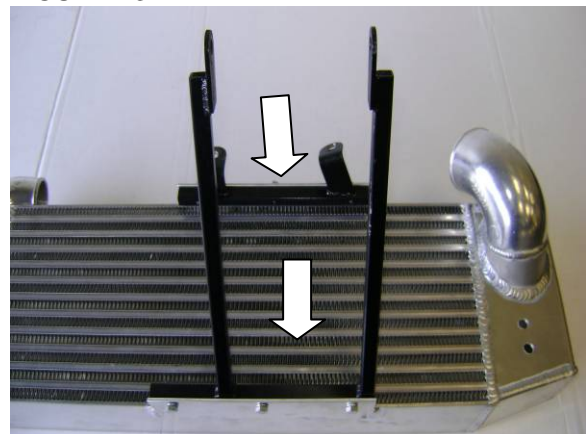


FIGURE 13





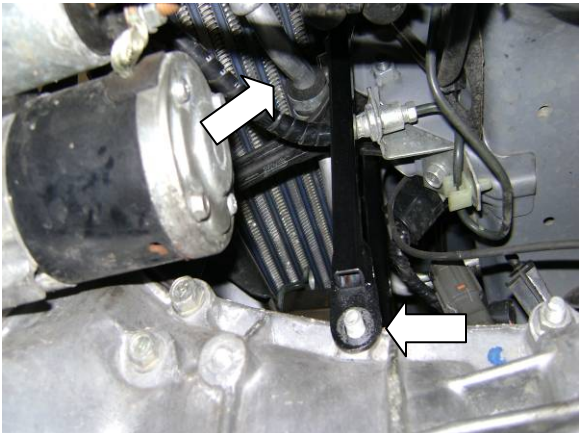
- 11.) Slide #036 hose clamp over throttle body coupler and slide intercooler into coupler on throttle body, leaving clamp slightly loose. SEE FIGURE 14

FIGURE 14



- 12.) Bolt rear intercooler bracket to top of transmission using factory M8 bolt (The AC hose directly below intercooler might have to be bent forward slightly towards front of car). SEE FIGURE 15

FIGURE 15





- 13.) Bolt front intercooler bracket to clutch slave cylinder using spacer M10 bolt and lock washer. Also secure bracket to existing factory bracket using M8 wizlock nut. SEE FIGURE 16 and 17

FIGURE 16

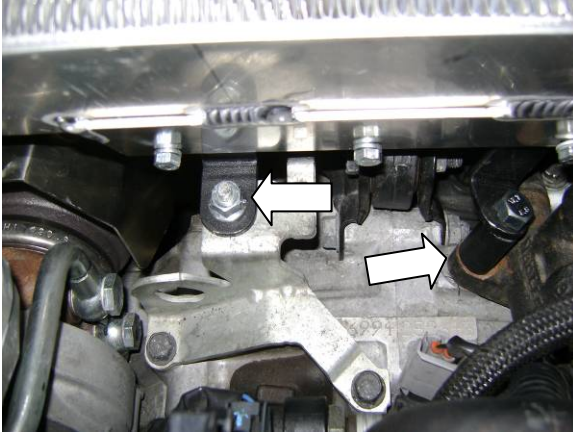
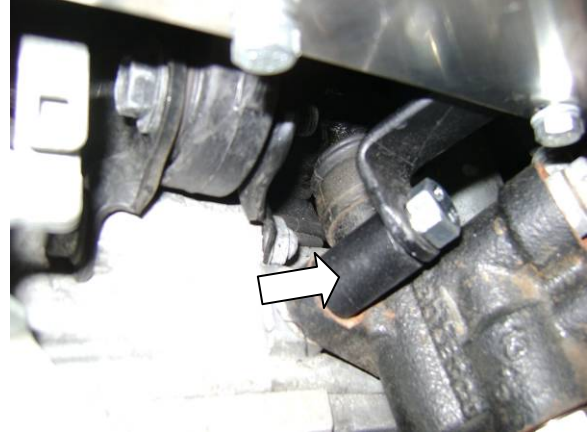


FIGURE 17



- 14.) Attach intercooler to turbo adapter using 2.0" coupler and (2) #028 clamps. SEE FIGURE 18

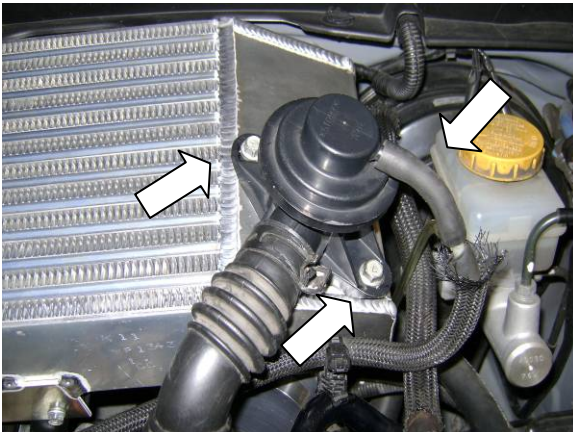
FIGURE 18



- 15.) Check to see if intercooler is level and all couplers are aligned. Tighten all clamps, nuts and bolts.

- 16.) Attach factory bypass valve to top of intercooler using factory bolts & seal. Connect vacuum line to bypass valve. SEE FIGURE 19

FIGURE 19



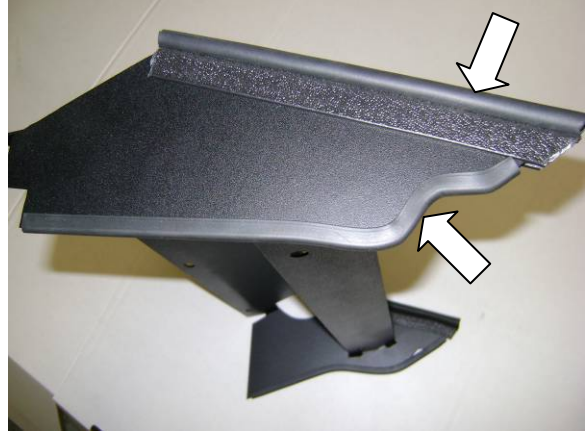


17.) Attach rubber edge seals to air duct using a small amount of adhesive on the corners. SEE FIGURE 20 and 21

FIGURE 20



FIGUER 21



18.) Attach air duct to hood using (3) push-lock retainers on front edge and (2) barbed retainers and spacers on the rear. SEE FIGURE 22 and 23

FIGURE 22

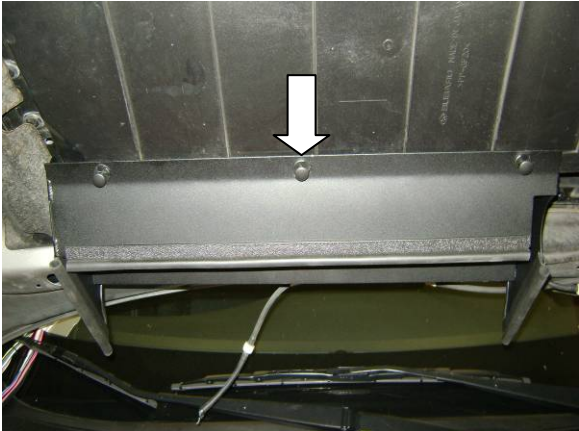


FIGURE 23



19.) Check alignment of air duct with intercooler face.



FINAL CHECKLIST:

- Review these instructions to make sure that all fasteners, clamps connections have been installed correctly.
- Check that all hose and wire routings are free of any kinks or near any hot or abrasive surfaces, which may cause wear over time. Adjust or reroute as necessary to provide adequate slack for engine movement.

“NO FAULT / NO HASSLE” WARRANTY PROGRAM:

TURBONETICS will repair or replace, at our expense, any new TURBONETICS / Spearco products that fail, including products used in racing or competition applications, for a period of one year from the original date of purchase. All turbocharger and cartridge assemblies have a factory installed inline oil filtration device. This filter device must remain in place if any warranty is to be considered under the No-Fault / No-Hassle program. Electrical components that fail due to misuse are not covered under the No-Fault / No-Hassle Warranty Program.

Warranty is limited to TURBONETICS products and does not include progressive or subsequential damage and does not cover removal or installation labor or associated parts. No warranty is made for any other claims for special, indirect or consequential damages including but not limited to component removal or installation equipment downtime, prospective profits or other economic loss.

Warranty will not be granted for recurring damage, malfunction, or failure due to improper installation, misuse, unauthorized repair or alterations, or externally induced physical damage.

Warranty is non-transferable and must be processed via the original purchaser from TURBONETICS.

Remanufactured units, performance upgraded units, and O.E.M. replacement units are covered by a 90-day warranty or the O.E. warranty period.

TURBONETICS highly recommends that the installation of mechanical or electrical parts be performed by trained professionals. Improperly installed products may lead to unsafe and unreliable conditions.

RETURN POLICY:

Only unused and complete merchandise may be accepted for return subject to inspection and acceptance by TURBONETICS. No goods will be accepted without prior return authorization from TURBONETICS. Call for approval and RGA (Returned Goods Authorization) tracking number. No returns will be accepted without an RGA tracking number. No returns will be accepted after ninety (90) days from the original shipping date from TURBONETICS unless approved. All approved returns are subject to a 15% restocking charge – NO EXCEPTIONS. The original invoice must accompany the return. Accepted warehouse / distributor and open account returns will be issued credit only.

RETURNED GOODS AUTHORIZATION TRACKING NUMBER:

TURBONETICS will only accept product returns, repair orders / upgrades, and warranty requests that have been approved and are returned with a corresponding RGA (Returned Goods Authorization) tracking number.

Contact TURBONETICS for approval and the RGA number. Write the RGA number clearly on the outside of the package and include it inside the package. This is very important in allowing us to properly identify and process your request. Failure to comply with this requirement will result in the delay of processing or the product being returned to you.