



Intercooler Upgrade Kit
Kit p/n 11647

Mitsubishi Lancer EVO X





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 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 heat exchanger (intercooler) 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 battery.
- 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.

- Mitsubishi 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 Hr.

TOOLS REQUIRED:

- 1.) 5/16" or 8mm, 10mm, & 12mm Socket
- 2.) Ratchet & Socket Extension
- 3.) Hose Pick

PARTS LIST

<i>Part Number</i>	<i>Description</i>	<i>Quantity</i>
70043	Heat Exchanger (Intercooler) Assembly	1
22277	Bracket, Lower Adapter	1
30589	Washer, flat, M8	1
30654	Hex nut, M8x1.25 nylock	1
30807	Washer, flat, M8 32mm OD	1
31076	Bolt, hex hd, M8x1.25 X 30mm	1
31313	Bolt, hex hd, M6x1.00 X 30mm	1
31392	Hex nut, M6x1.00 nylock	1
31393	Washer, flat, M6 32mm OD	1
60215	Install Instructions	1



INSTALLATION

- 1.) Remove 3 push-type retainers and one M6 bolt from both front fender wells. SEE FIGURES 1 & 2

FIGURE 1

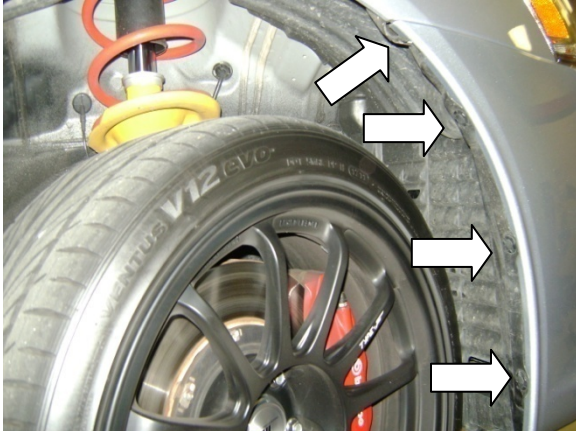
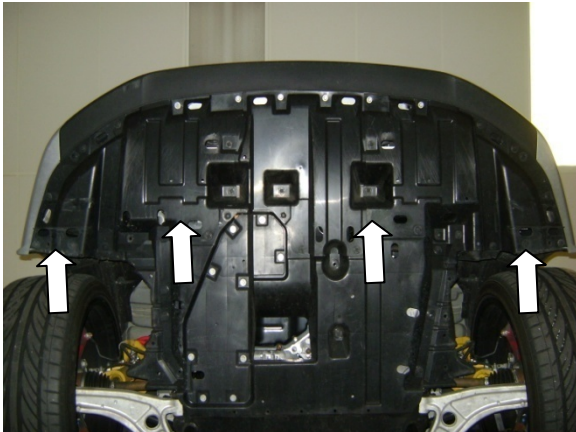


FIGURE 2



- 2.) Remove 18 push-type retainers from lower valence panel. SEE FIGURE 3

FIGURE 3





- 3.) Remove cold air intake and upper valance panel. SEE FIGURE 4 and 5

FIGURE 4

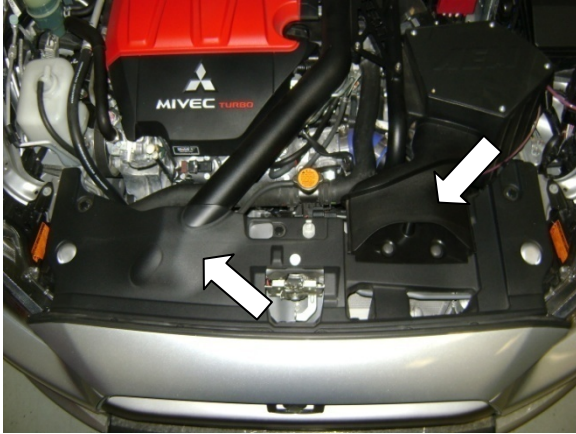
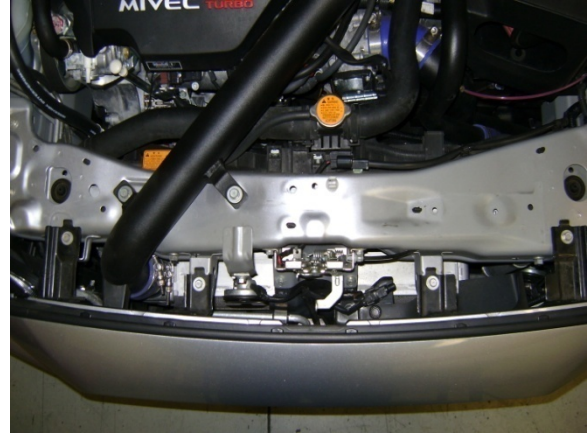
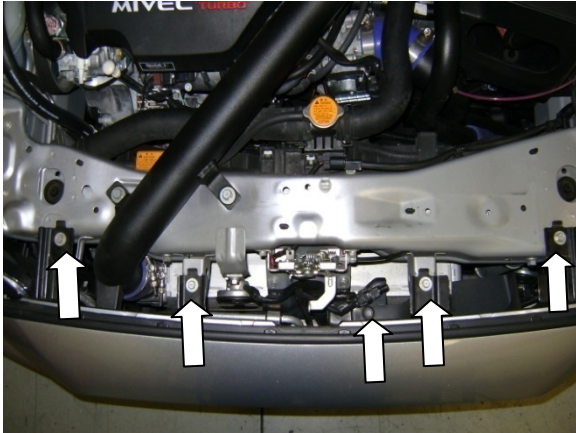


FIGURE 5



- 4.) Remove (4) M6 bolts and one push-type retainer from front end. SEE FIGURE 6

FIGURE 6

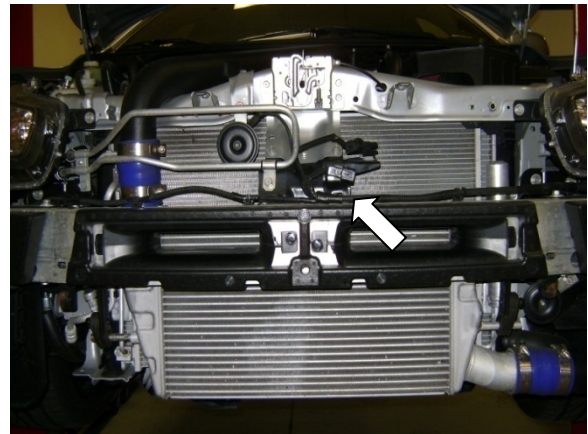


- 5.) Unsnap front end from fender on both sides. Disconnect lighting harness and remove front end. SEE FIGURE 7 and 8

FIGURE 7



FIGURE 8





- 6.) Loosen clamps holding factory couplers to factory I/C inlet and outlet ports. SEE FIGURES 9 and 10

FIGURE 9

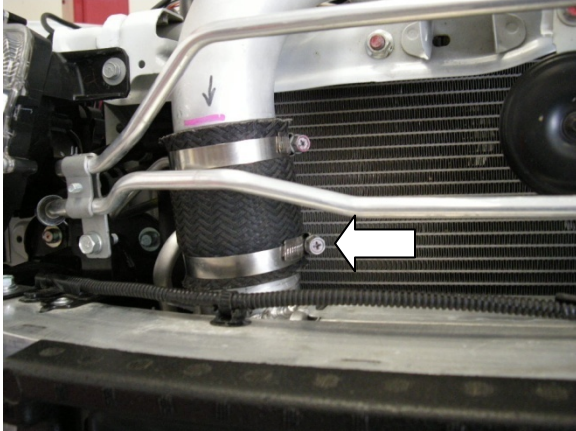
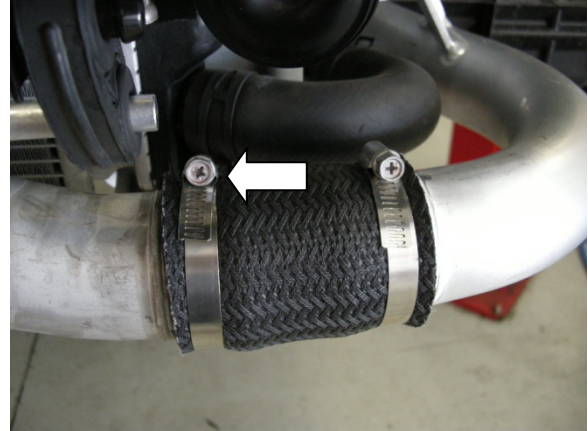
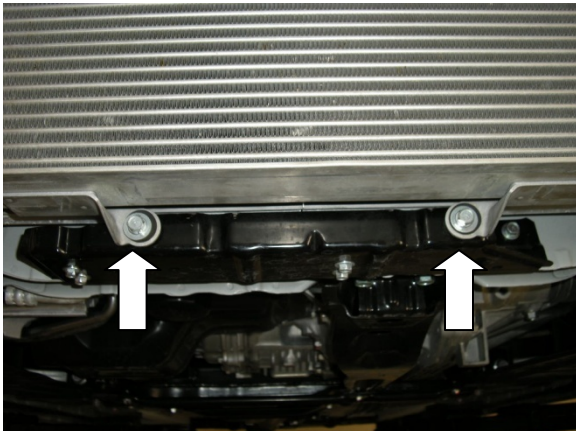


FIGURE 10



- 7.) Remove (2) M8 bolts from bottom of factory I/C mounts. SEE FIGURE 11

FIGURE 11



- 8.) Remove (4) M8 bolts holding left & right factory I/C mounts to bumper support. SEE FIGURES 12 and 13

FIGURE 12

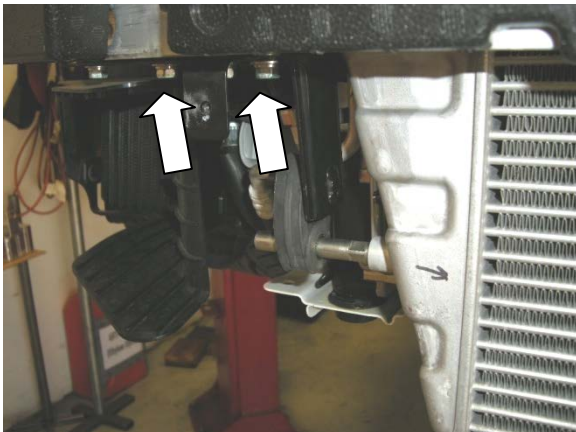
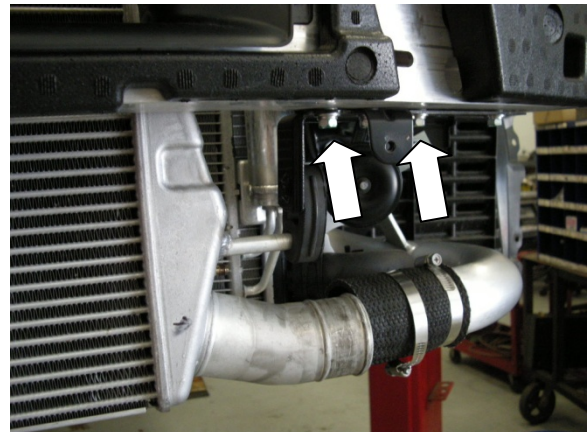


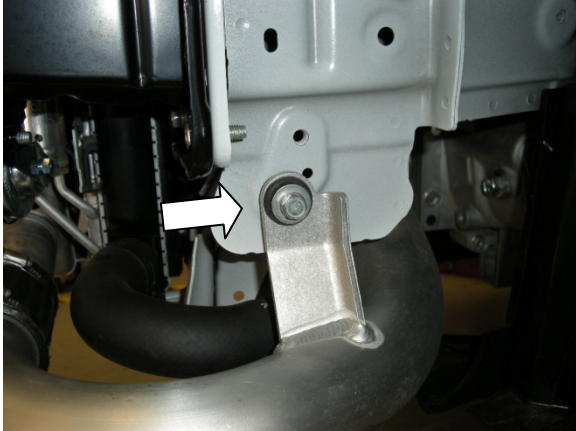
FIGURE 13





- 9.) Remove (1) M8 bolt holding factory I/C pipe to core support on driver's side. SEE FIGURE 14

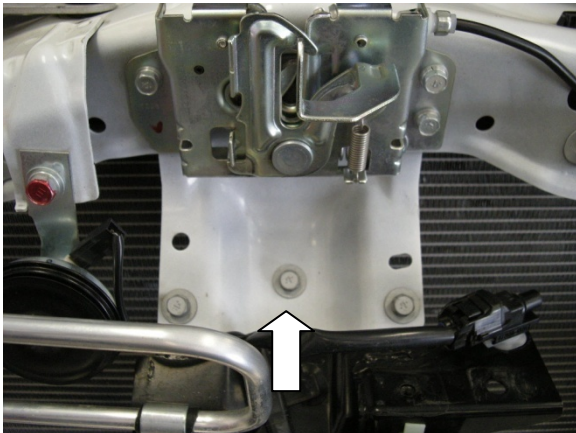
FIGURE 14



- 10.) Remove factory I/C and remove mounts with grommets from factory I/C.

- 11.) Remove (1) M6 bolt from hood latch bracket. SEE FIGURE 15

FIGURE 15





12.) Remove threaded dowel and (2) grommets and spacers from factory I/C. SEE FIGURES 16 and 17

FIGURE 16

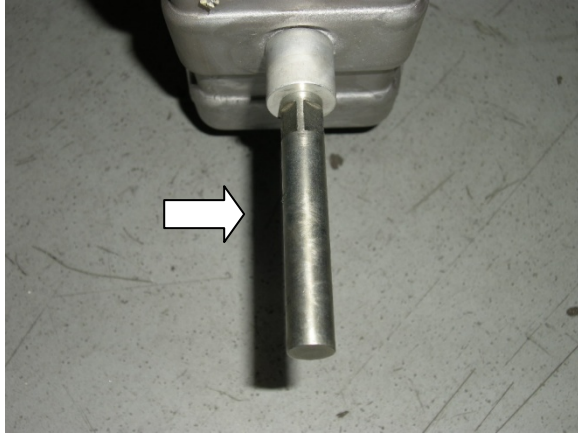
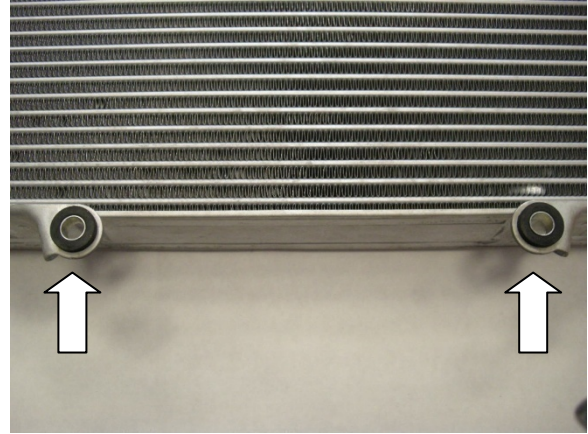


FIGURE 17



13.) Install dowel, grommets and spacers onto new I/C. SEE FIGURES 18-20

FIGURE 18

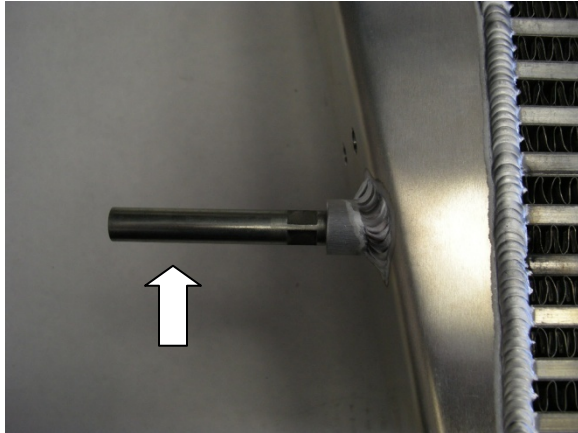


FIGURE 19

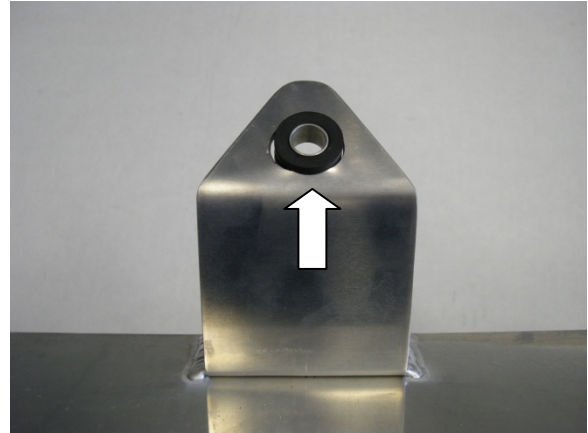
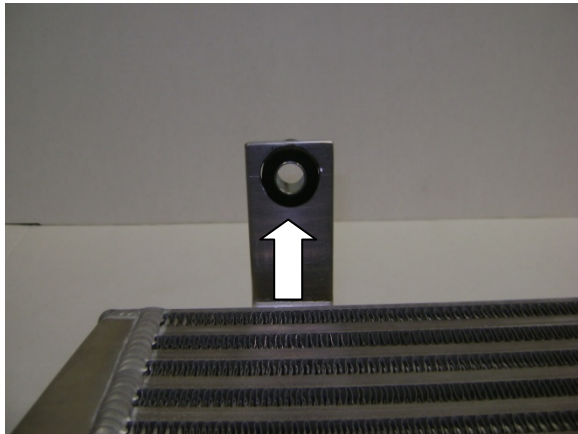


FIGURE 20



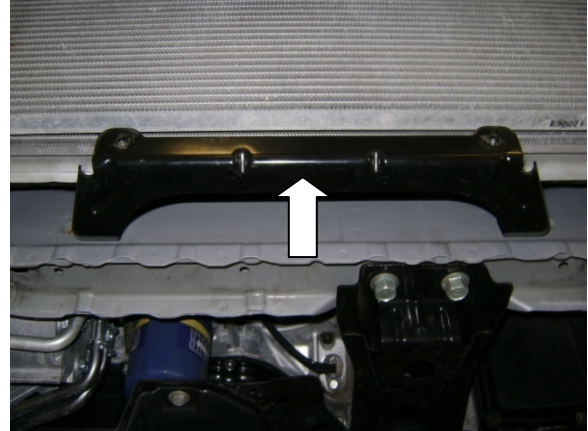


- 14.) If you have lower I/C bracket shown in figure 21, then leave it installed. If you have bracket shown in figure 22, then remove it from vehicle. SEE FIGURES 21 and 22

FIGURE 21



FIGURE 22



- 15.) If you removed the bracket in previous step, loosely bolt adapter bracket (p/n 22277) to lower core support re-using the factory M8 bolt. SEE FIGURE 23

FIGURE 23



- 16.) Slip the factory I/C side mounts and grommets onto new I/C. SEE FIGURES 24 and 25

FIGURE 24

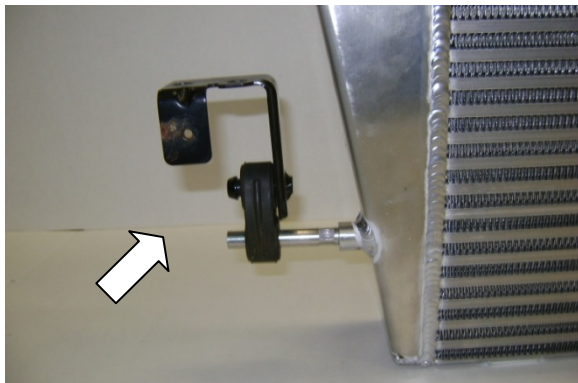
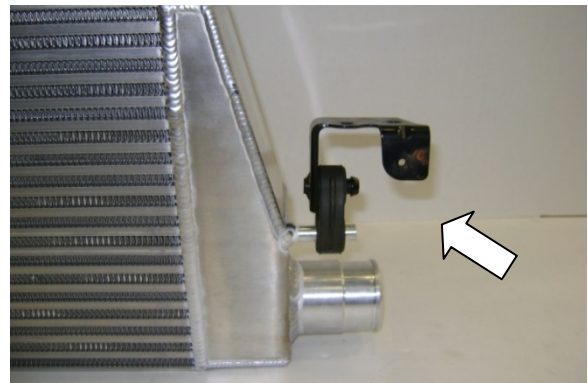


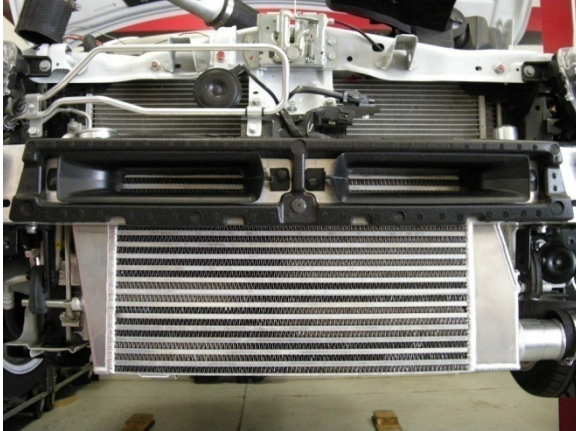
FIGURE 25





- 17.) Mount new I/C to bumper support loosely with (4) factory M8 bolts and loosely connect factory couplers and clamps. SEE FIGURE 26

FIGURE 26



- 18.) Slide top I/C mount grommet and spacer so it slips over factory nut on back side of hood latch support. Thread M6 bolt and M6 washer through hood latch bracket and I/C grommet spacer and bracket. Secure loosely with (32mm OD) M6 washer and nut. SEE FIGURE 27 and 28

FIGURE 27

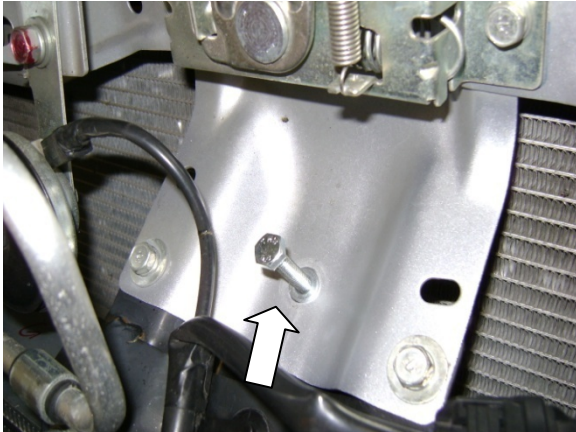


FIGURE 28





- 19.) If you retained the factory lower I/C bracket (in step 14), then loosely bolt lower (welded to I/C) bracket to that factory lower I/C bracket, using factory grommet, spacer and bolt. SEE FIGURE 29
- 20.) If you removed the factory lower I/C bracket (in step 14), then loosely bolt lower (welded to I/C) bracket to the adapter bracket (p/n 22277) using supplied M8 bolt, (32mm OD) M8 washer and M8 nut. SEE FIGURE 30

FIGURE 29

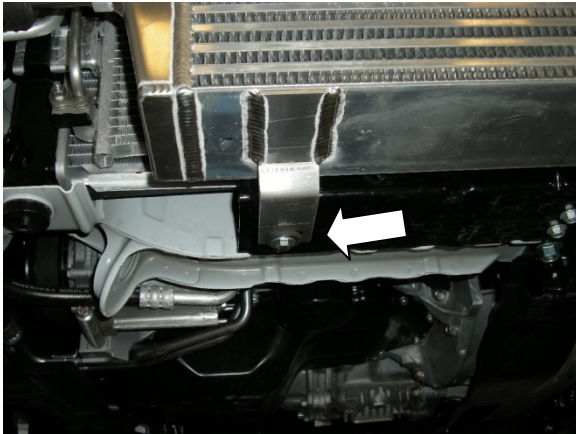
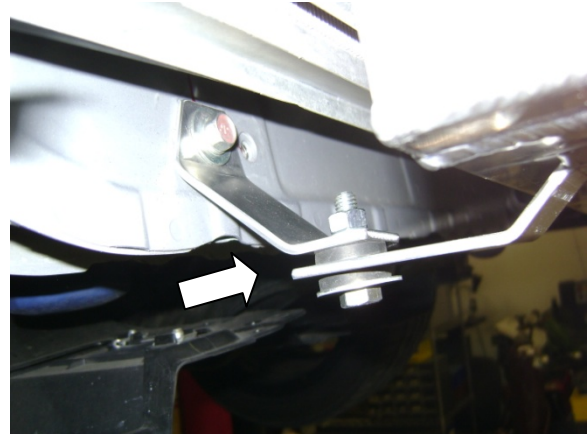


FIGURE 30



- 21.) Check alignment of new I/C. It should not be touching any part of the AC condenser. Tighten all nuts, bolts and clamps, which were previously loosely installed.
- 22.) Reinstall front end in reverse order of removal.



FINAL CHECKLIST:

- Review these instructions to make sure that all fasteners have been installed & tightened.
- Check that all hose routings are free of any kinks or near any hot or abrasive surfaces, which may cause wear over time. Adjust or re-route 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 sub-sequential 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.