



Installation Instructions for 2008-2013 STi front mounted intercooler

Bill of Materials

- * 1 x intercooler core
- * 4 x bent aluminum pipes
- * 7 x silicon hose sections
- * 9 x 60-80mm hose clamps
- * 2 x 70-90mm hose clamps
- * 1 x 40-60mm hose clamp
- * 2 x 32-50mm hose clamps
- * 1 x blow off valve mount
- * 2 x aluminium 90 degree brackets
- * 10 x zip ties
- * 2 x M8 bolts 15mm long
- * 3 x M8 bolts 20mm long
- * 1 x length 1/2in hose with plastic t-piece
- * 1 x length 3/8 hose with joiner (for brake booster line - RHD ONLY)



Installation of this intercooler system will require either the optional Process West air intake system or another aftermarket air intake.

- remove factory intercooler and air box assemblies

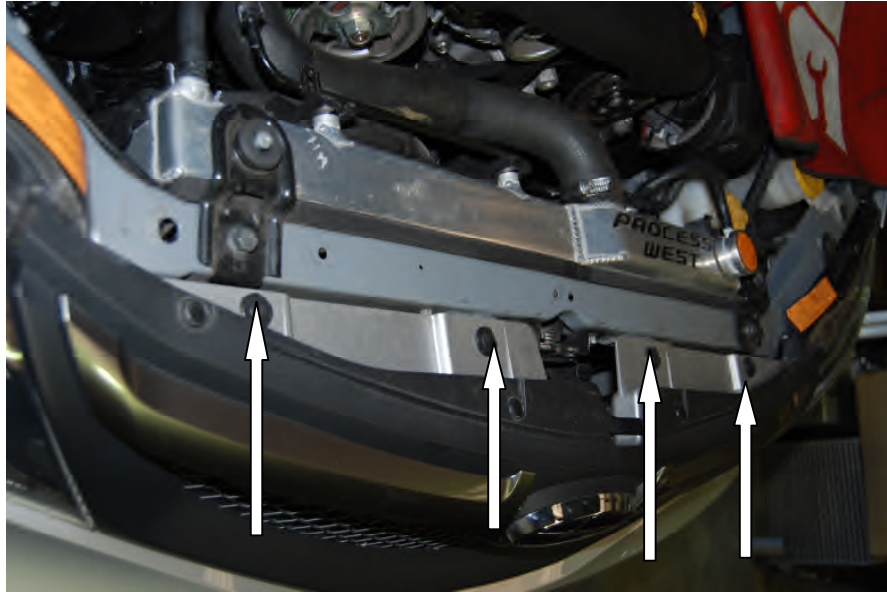


Jack up vehicle and place jack stands under

Remove these clips from both sides of the car



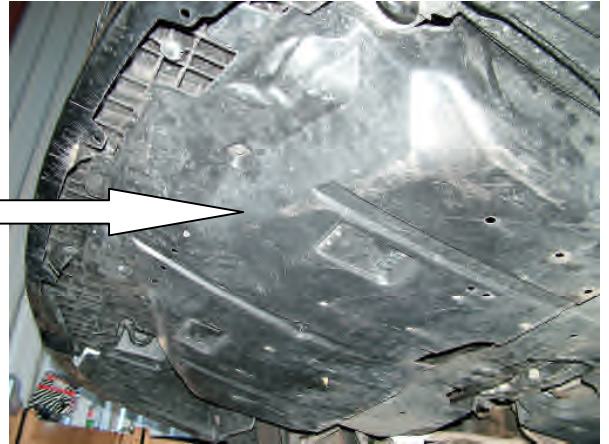
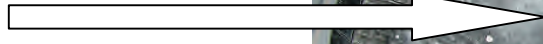
Remove these clips



slide headlight washer out and unplug..repeat for other side.

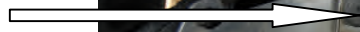
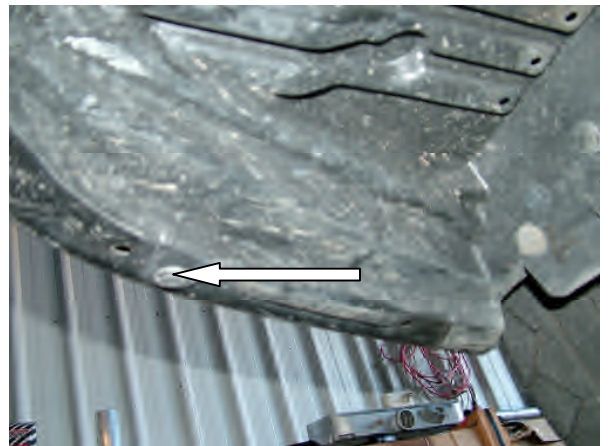
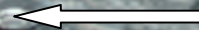


Remove under tray



Remove clips from under guard liners on both side of the vehicle.

Pull the liners down...no need to fully remove them. Unplug the foglights at this stage.



Once all of the clips are removed it time to remove the front bar. Behind this area is a "clip-lock" arrangement.

Simply stand next to the vehicle and pull towards you



Now that the front bar is off remove this panel



now remove this steel panel..to do this you will first need to unplug the headlight washer hose from each end



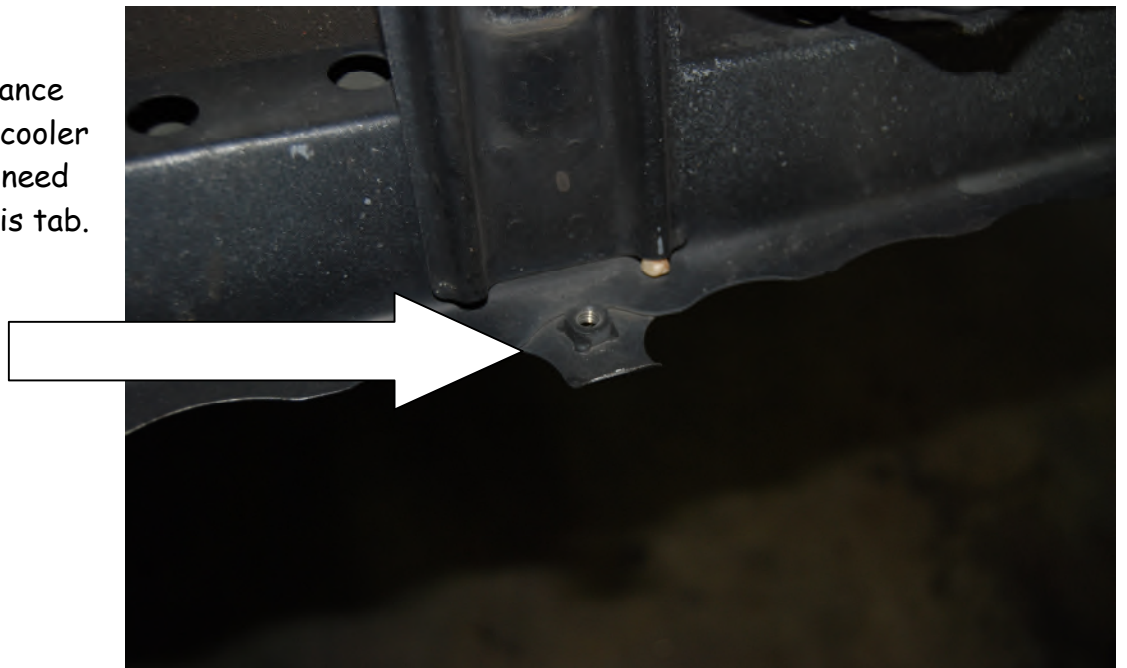
Shows headlight washer hoses



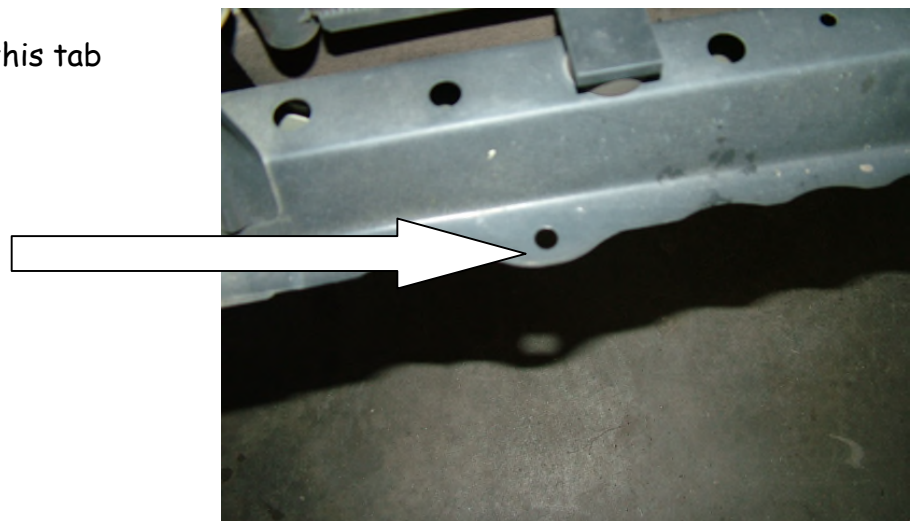
Next, tap up this protruding piece of metal



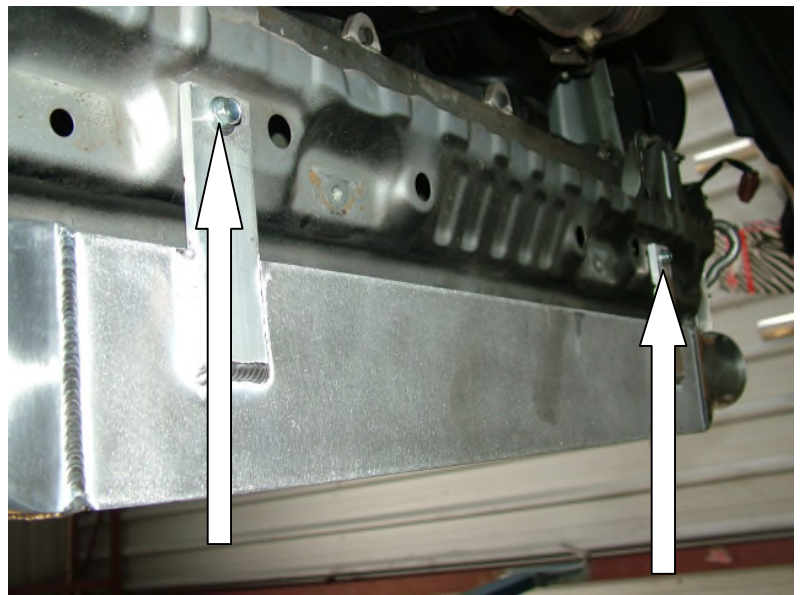
To give clearance
for the intercooler
core you will need
to remove this tab.



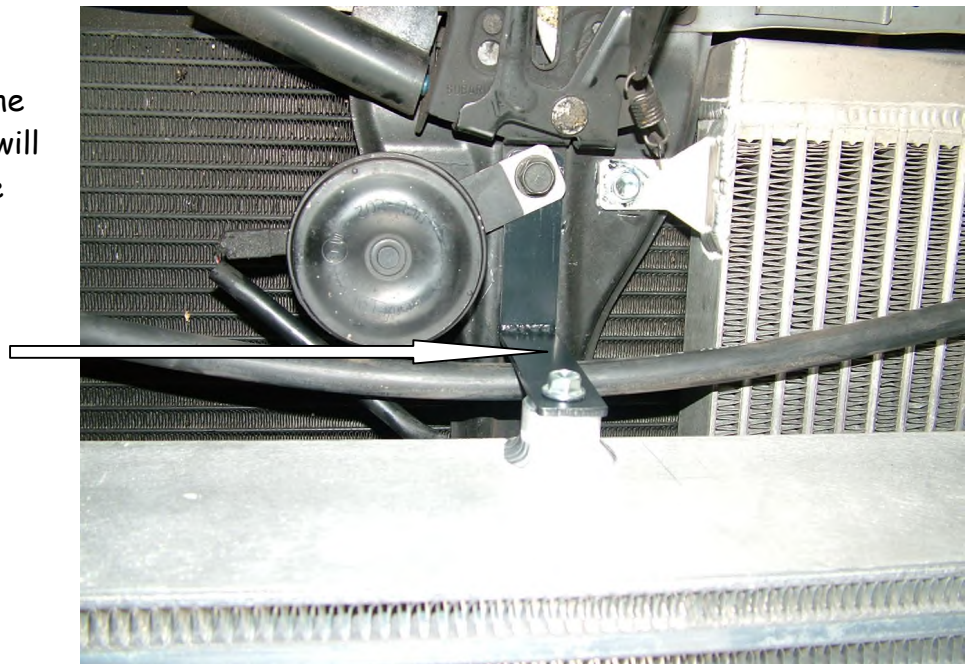
And also sand down this tab



next step is to mount the intercooler core. This pic shows the view from beneath the car. Use the supplied M8 bolts as shown. (these bolts will be removed and replaced later in the installation).



Now secure the top of the intercooler with the supplied bracket. You will also need to mount the horn as shown.

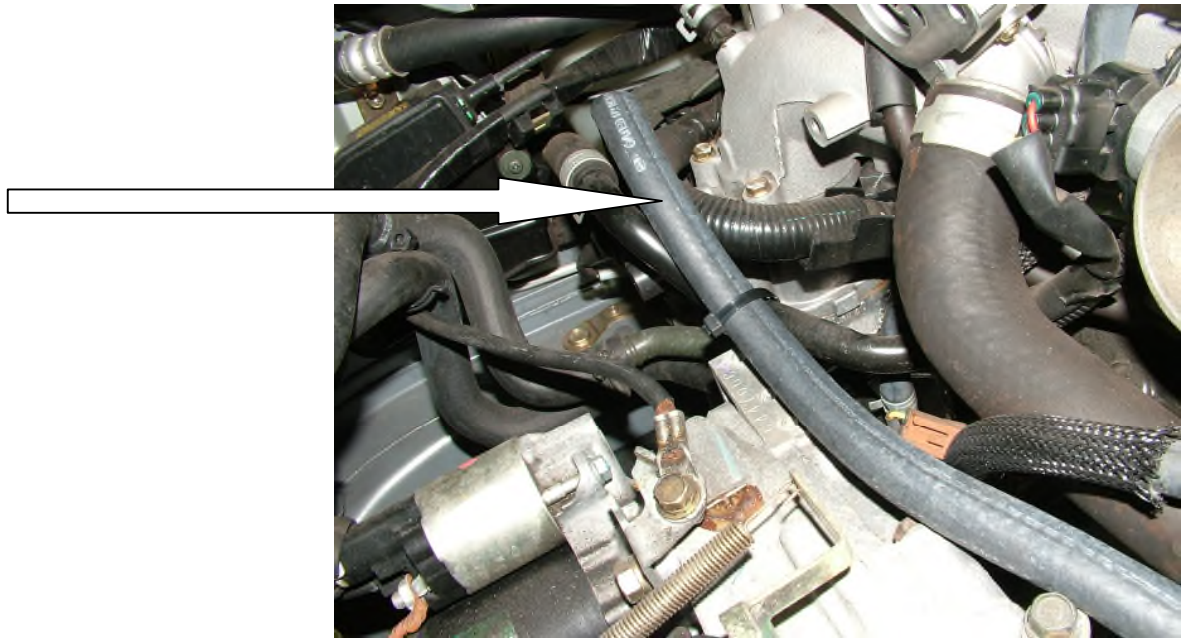


Now re-install the headlight washer hoses and secure with the supplied zip ties as shown



Next, you need to install the replacement cam cover breather line. Find the 1/2in plastic tee piece and rubber hose in your kit and install it as shown below. Use the supplied cable ties to secure the hose into place.





Intercooler piping installation

Locate this silicon hose in your kit and install as shown.



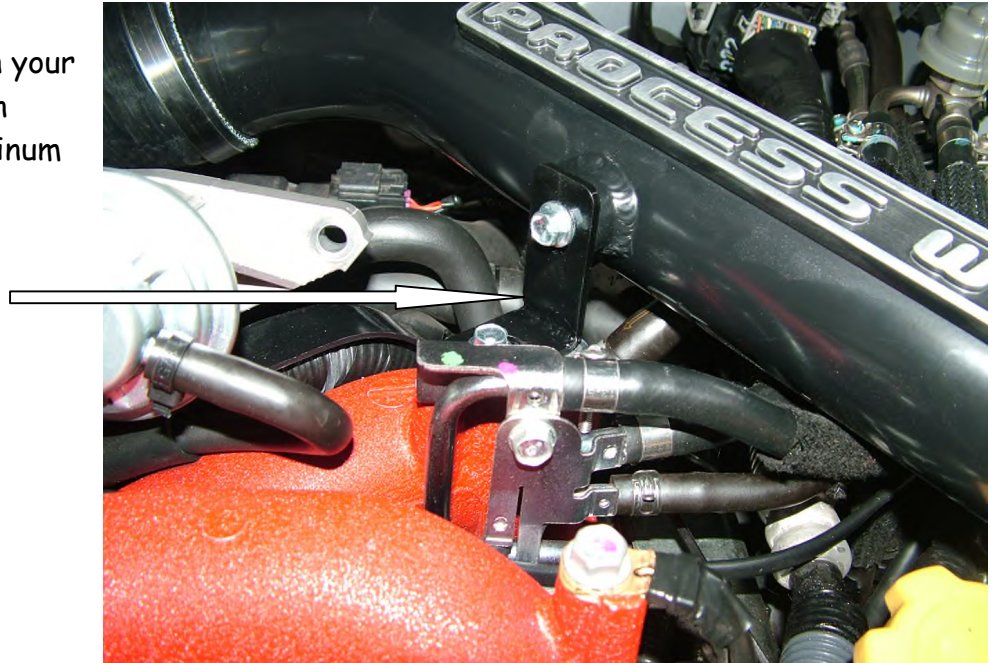
Next you will need remove the radiator overflow bottle (temporarily)



To give clearance for the intercooler piping you will need to bend this air conditioning line a little. This pic shows before..next pic after.



Now locate this pipe in your kit and install as shown with the supplied aluminum elbow. Leave loose for now.



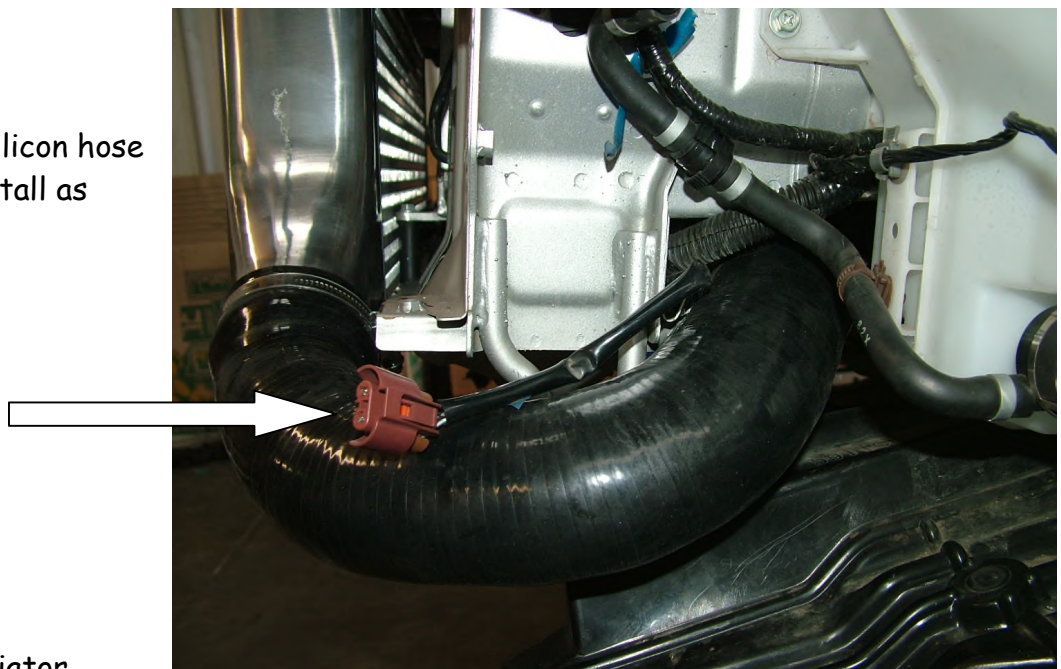
Next, locate this pipe and the 15 degree silicon elbow in your kit. This pipes runs down the front of the engine



Install as shown



Now locate this silicon hose
in your kit and install as
shown.



Re-install the radiator
overflow bottle.

That completes the "hot side" intercooler piping. Next is the "cold side"

Locate this pipe in your kit



And install as shown

This is a view from underneath the vehicle. Use this earthing point to mount this pipe.



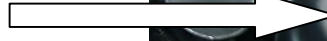
This pic shows the above pipe
From above



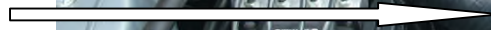
Next install this silicon
hose from the intercooler
to the above pipe.



Now install this pipe



And this 45 degree silicon elbow



Using the supplied
BOV mount install as
Shown.



Bar Cutting

The best method to cut the front bar is to use an air powered hacksaw and a 4in angle grinder with a sandpaper "flap" disc.

This pic shows the bar after cutting.



To achieve this you need to do the following...

Firstly remove the foglight surrounds...they will be cut later.

This pic gives shows what plastic needs to be removed around the intercooler inlet/outlet.



Once enough plastic has been removed the front bar will "click" back into place without any pressure on the bar itself.

Next you need to cut the foglight surrounds as shown. You will need to cut and fit them a few times until the cut lines up the cut on the bar.



The pic below shows another bar cutting option that will expose more of the intercooler (and give better intercooler performance) but will require more plastic to be cut.



Re-install under guard liners. To do this you will need to cut each guard liner as shown to give clearance for the new intercooler piping. Using the supplied zip ties re-secure the liners by drilling 6mm holes.

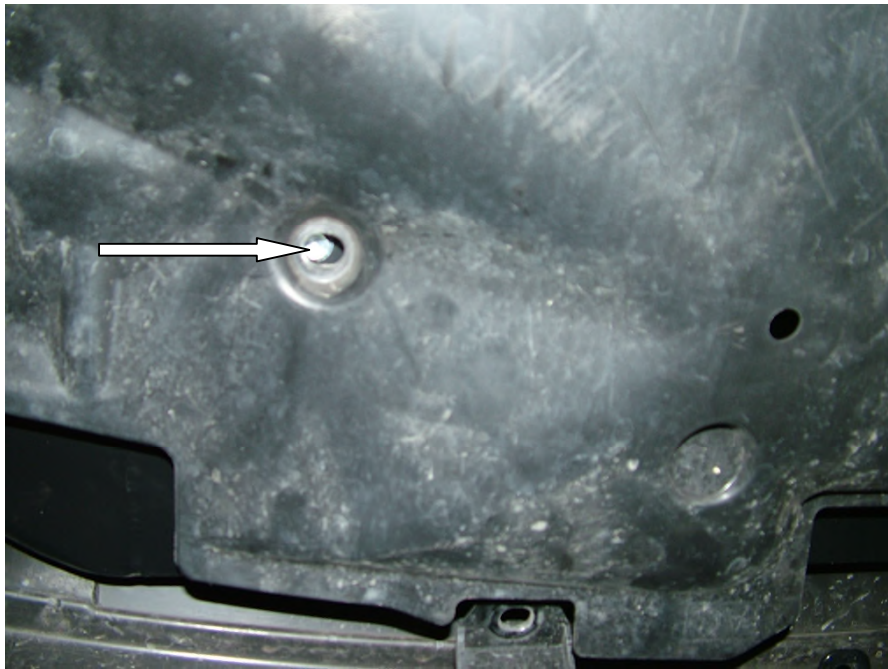


Re-install under tray. To install the under tray you will need to cut some plastic to give clearance for the new intercooler pipes. This pic gives you a guide of were to cut. Best thing to do is sit the tray back into place...this will give you a better idea of were to cut.



2 of the bolts that hold the under tray in place are also the bolts that secure the bottom of the intercooler.

With the tray in place you need to remove one bolt at a time from each side and re-install the factory bolts.



Final job is to install the brake master cylinder vacuum line. Supplied in the kit is a length of 3/8 hose. Install as shown.(Right Hand Drive Only)



Connect the hose into this factory hose. **Be sure to leave this hose in place as it has a one way valve inside it that is crucial for the brake to work correctly**

Installation complete.

It is highly recommended that the vehicle be tuned after installation of this product.

