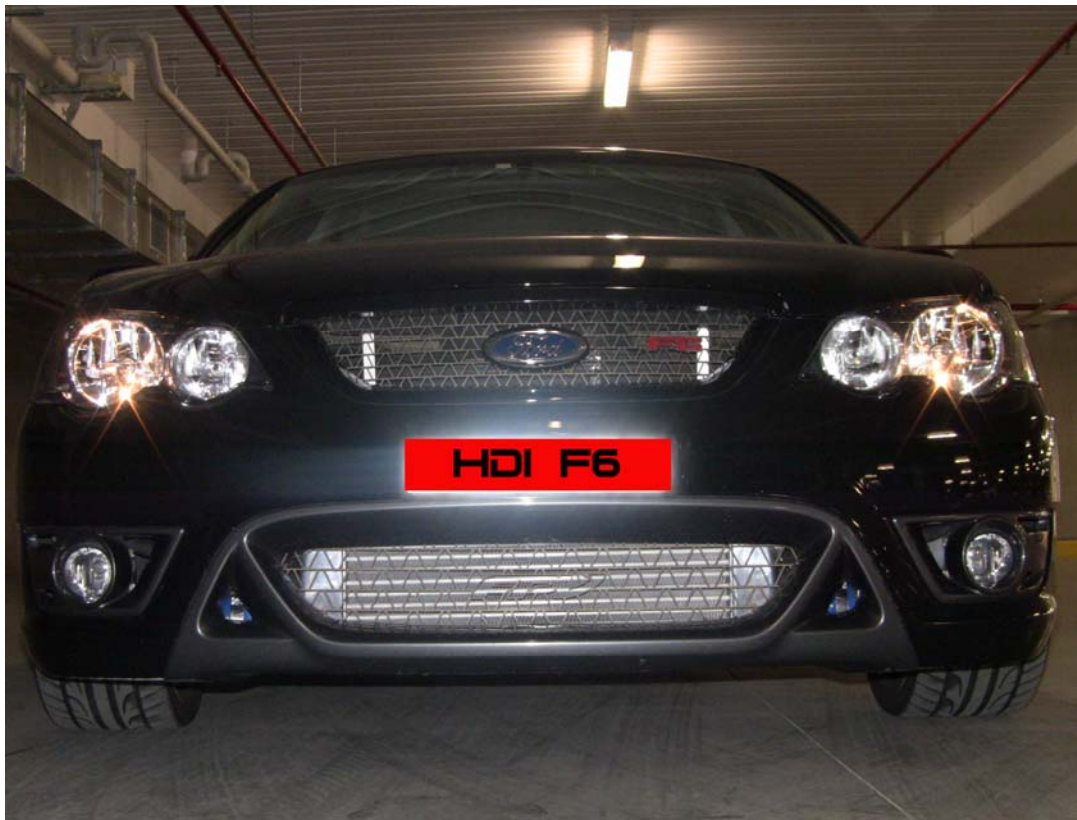


**HYBRID DEVELOPMENT INTERNATIONAL  
RACING INTERCOOLER KIT  
INSTALLATION MANUAL**



### **Please read before continuing**

Please read through all the instruction and practice all precaution in all aspect of safety and every step prior and during the installation. This installation manual is purely for **HYBRID DEVELOPMENT INTERNATIONAL RACING INTERCOOLER KIT**

And is used as guide only. As different vehicles in different countries may have different specifications and component layout. Therefore, it is important to make sure the connection is properly done by authorized technician or HDi Technical Dealers.

### **Warning**

- Check and clean all open area for foreign object inside.
- Installation should only be carried out by authorized dealer or agent only.
- Avoiding water, liquid or fluid during and post installation.
- Do not install the unit in a place that will interface the driver.
- This product is for off road use only not for public road.
- Never adjust the fitment when the car is moving or on public road ,doing so is dangerous to yourselves and others
- Make sure there is adequate ventilation if you are installing or setting it indoors.

### **LIMITED WARRANTY**

Hybrid Development International will warranty for the period of 1 year from original purchase against all defects in workmanship and materials. Hybrid Development International is not responsible for expenses incurred for labor, personal injury or inconvenience. Hybrid Development International sole responsibility is to offer a replacement product or to repair the damaged product. Hybrid Development International cannot warranty products damaged by improper installation. All other products sold by Hybrid Development International are warranted by the original manufactures and is not the responsibility of Hybrid Development International.

All products are for racing use only.

**All rights reserved.**

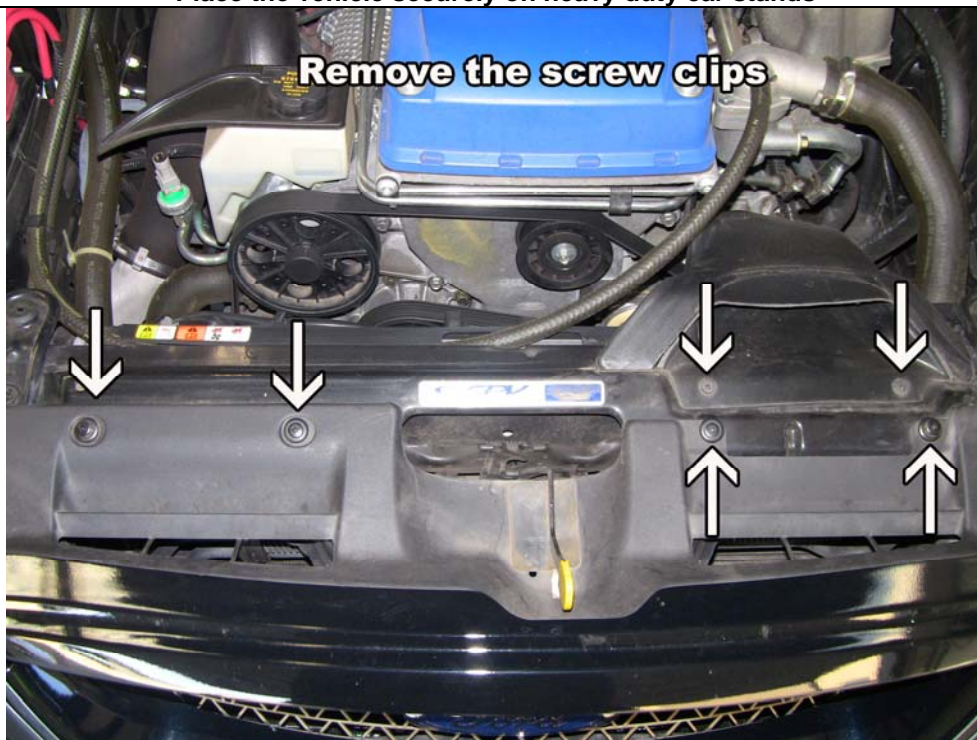
For more information please visit [www.hybrid-power.com](http://www.hybrid-power.com) or contact [tech@hybrid-power.com](mailto:tech@hybrid-power.com)

**This installation manual is a guide only. Pictures are for illustration purposes only as the vehicles and product may vary in different countries / regions. Before opening the content of the Intercooler Kit please read through the installation manual to confirm your vehicle is suitable for this Intercooler Kit. Due to the technical nature of this kit is recommended to be installed by only an HDi approved technician.**



PLACE VEHICLE ON HEAVY DUTY CAR STANDS

Place the vehicle securely on heavy duty car stands



Remove the screw clips

Remove the screw clips from the air snorkel and the radiator shroud and remove the shroud and snorkel (snorkel remove permanently) Remove the factory air box.



**Unscrew clip in grill**



**Unscrew the clip from the passenger side grill**

**Unscrew clip from grill**



**Unscrew the clip from the drivers side grill**



Unbolt the drivers side grill section



Unbolt the passenger side grill section



**Unscrew the clips from the inner guard**



**Unscrew clips from the passenger and drivers side inner guard**



**Remove the clips from the splash tray**

**Unscrew clips from splash tray where marked and remove**

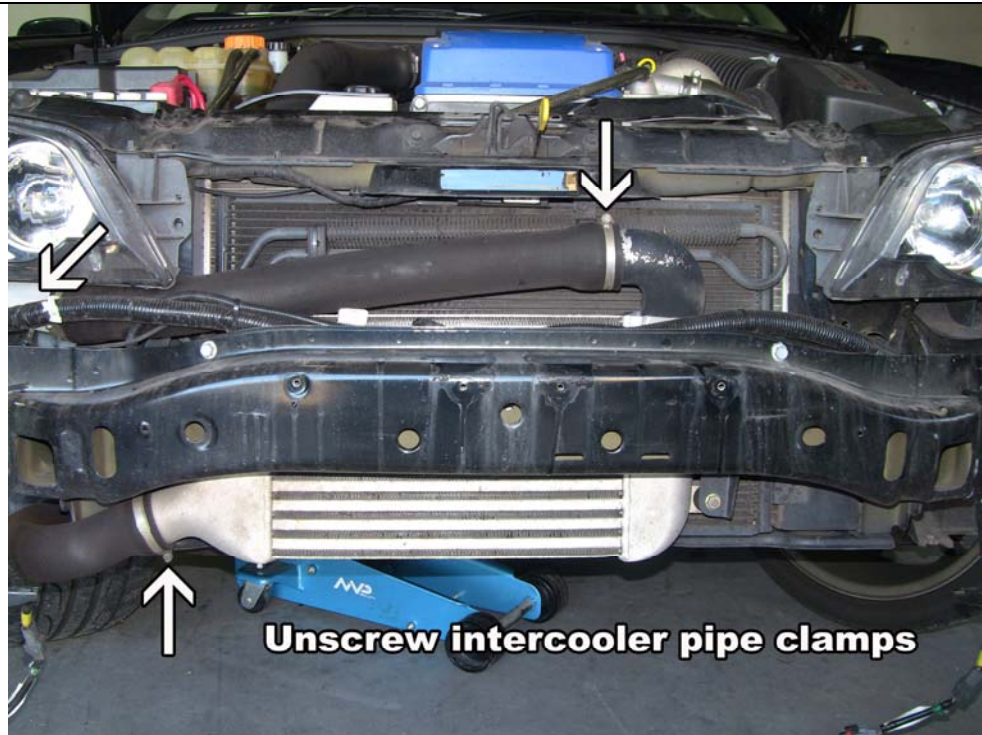


First remove the licence plate then remove bolts from the bumper bar support



Very carefully slide the bumper bar forward, then unclip the fog light wiring harness  
Unbolt and remove the plastic mesh from the bumper support bar



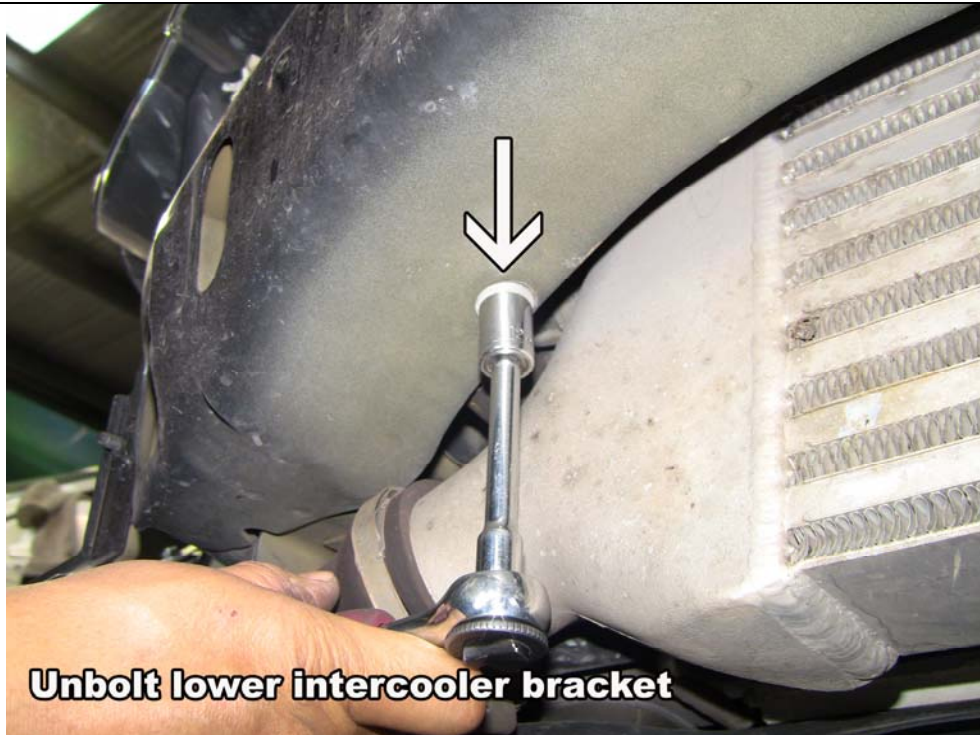


**Unscrew the intercooler pipe clamps from the intercooler (inlet/outlet) and the under battery pipe**

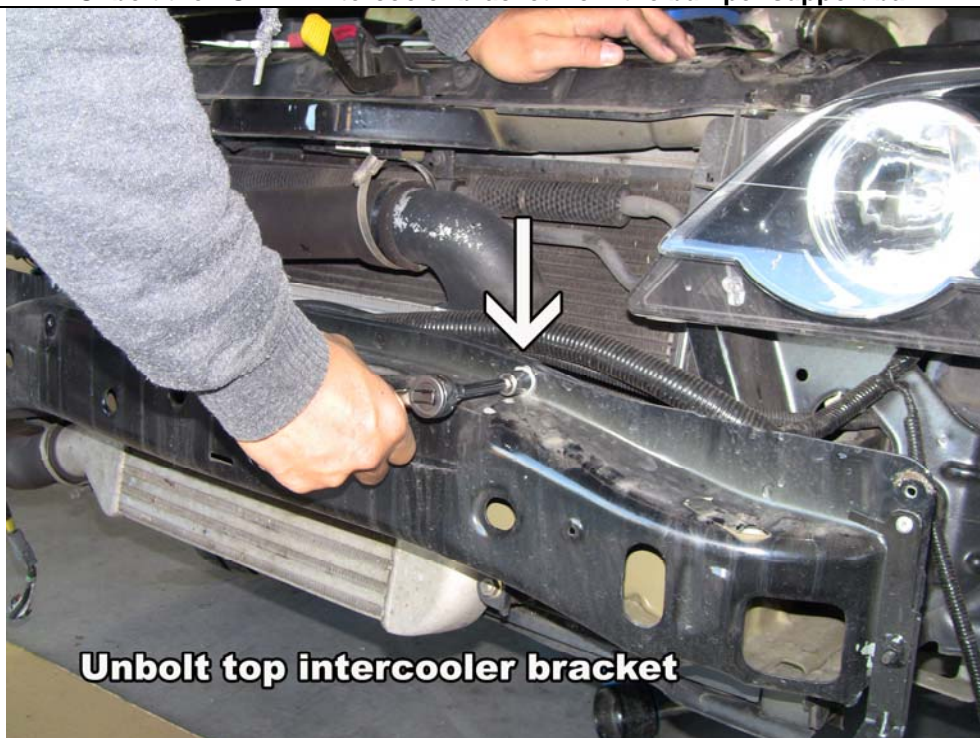


**Unbolt the TOP drivers side intercooler bracket from the bumper support bar.**





Unbolt the LOWER intercooler bracket from the bumper support bar

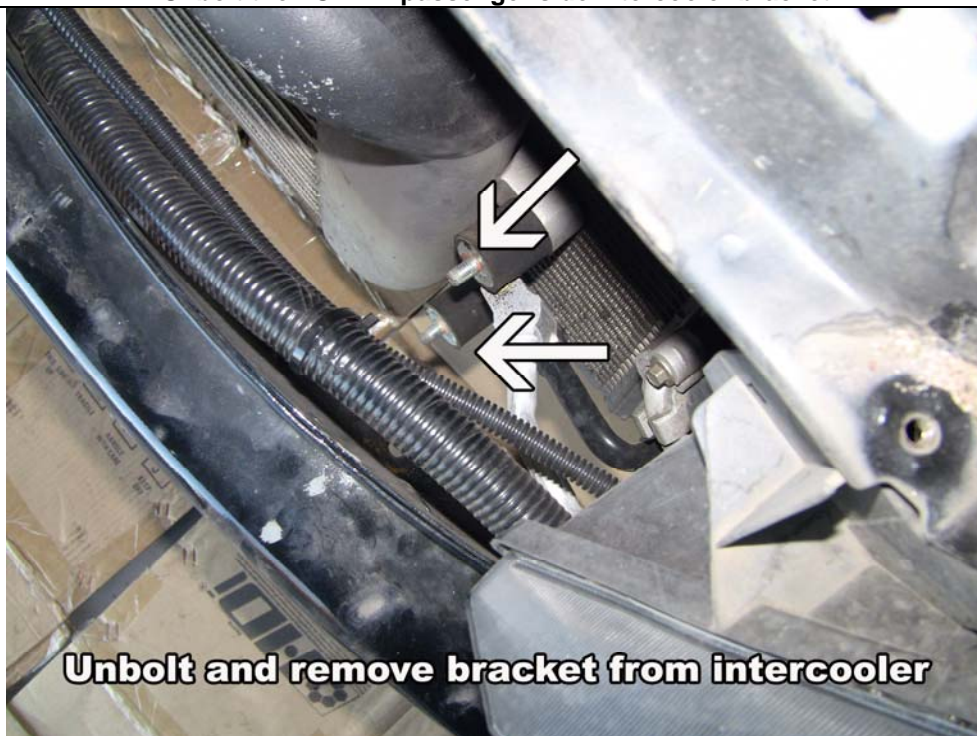


Unbolt the passenger side TOP intercooler bracket



**Unbolt lower intercooler bracket**

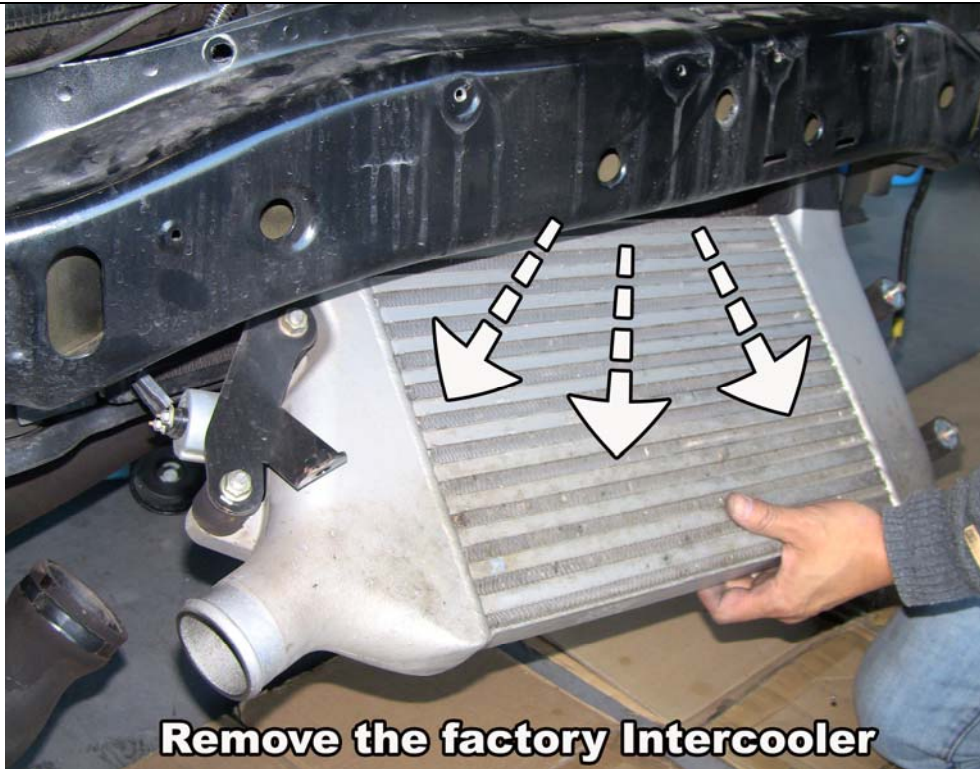
Unbolt the LOWER passenger side intercooler bracket



**Unbolt and remove bracket from intercooler**

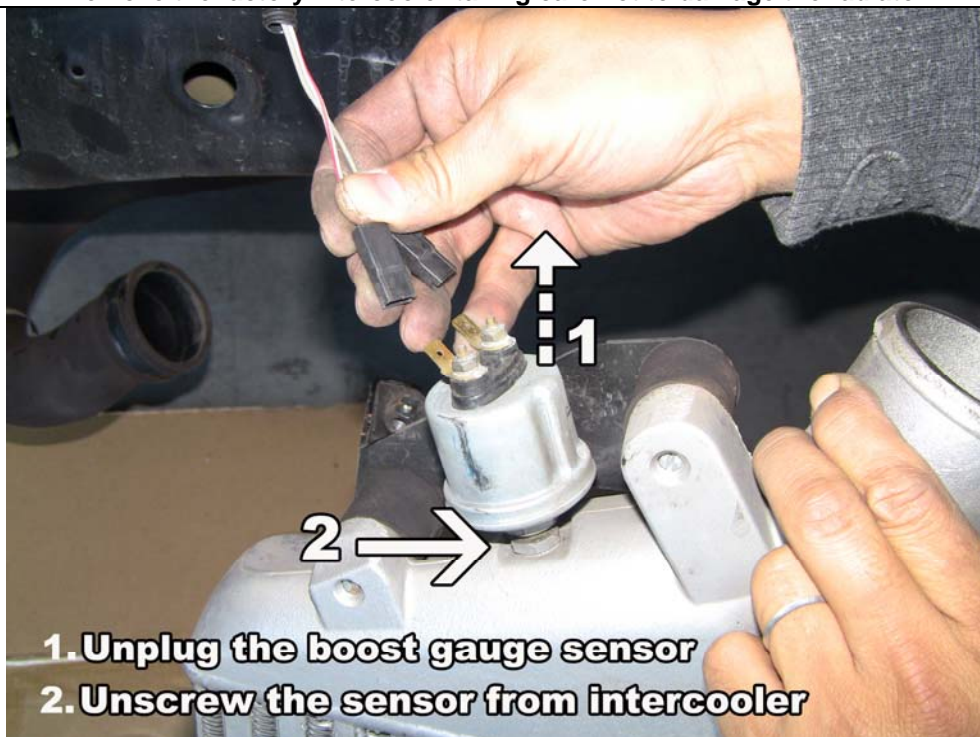
Behind the bumper support bar unbolt the intercooler from the bracket and remove bracket.





### **Remove the factory Intercooler**

Remove the factory intercooler taking care not to damage the radiator



- 1. Unplug the boost gauge sensor**
- 2. Unscrew the sensor from intercooler**

For F6 TYPHOON: 1. Unplug the boost gauge sensor wires noting their location for re installation  
2. Unscrew the complete sensor from the intercooler to reconnect later



**Completed view**

**Factory Intercooler now removed**



**Trim bumper bar support**



**Trim bumper support bar**

**Trim the shaded area from the internal edge of the bumper bar support on the drivers and passenger side  
The amount of trimming may vary dependant on model**



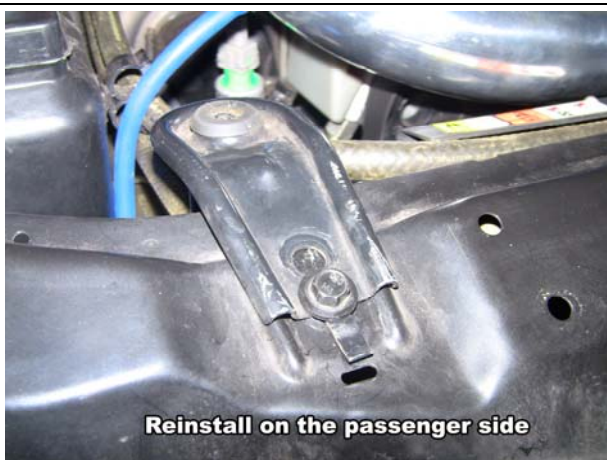
**Bend the end of bracket straight**



**Drill new hole in bracket**



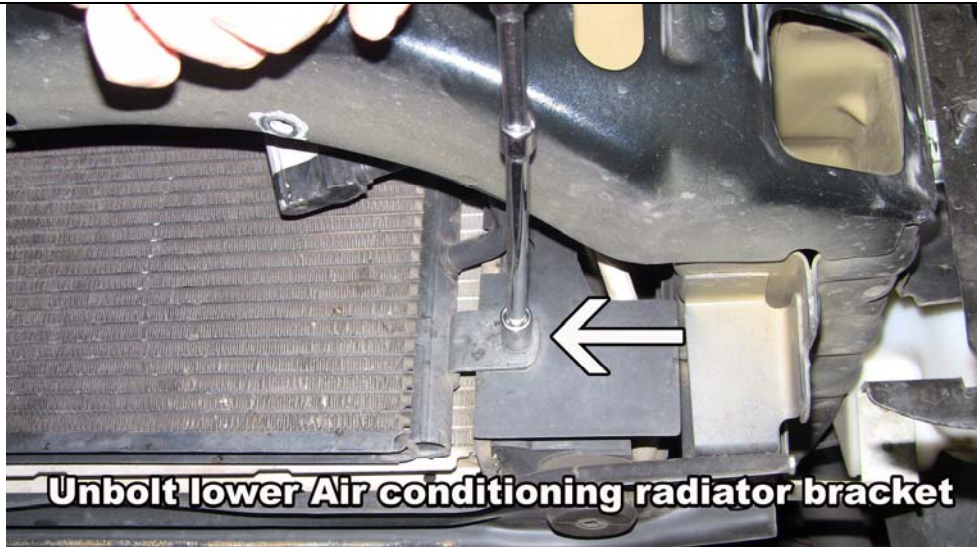
**Remove the top radiator brackets and modify as pictured. Bend the end of the bracket to a straight position and drill a new hole in front of the existing hole to the same size.**



**Reinstall the bracket to the radiator on both the passenger and drivers side. This will reposition the radiator**

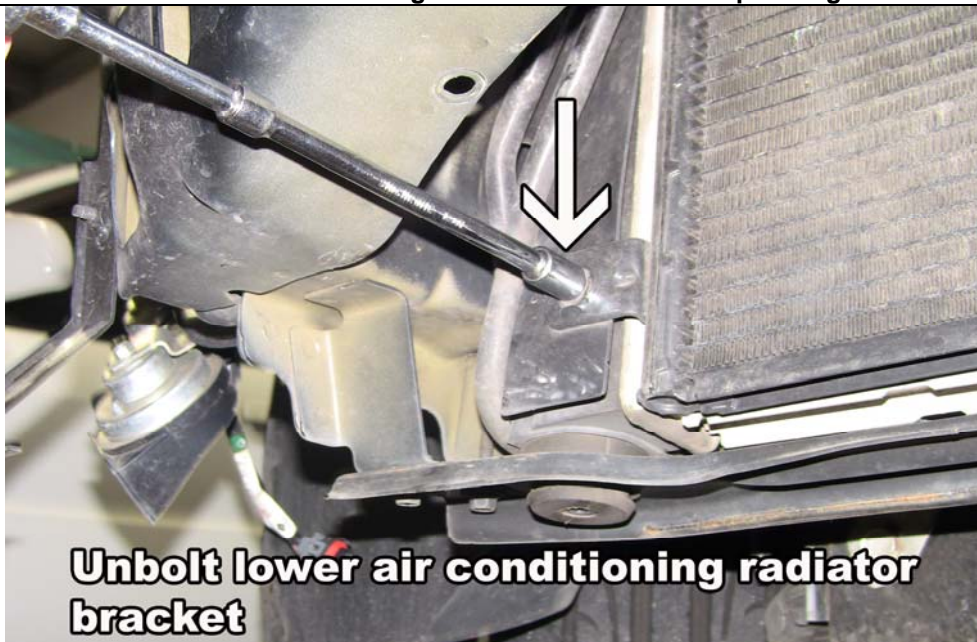


**Relocation of air conditioning radiator – unbolt top brackets on passenger side**



**Unbolt lower Air conditioning radiator bracket**

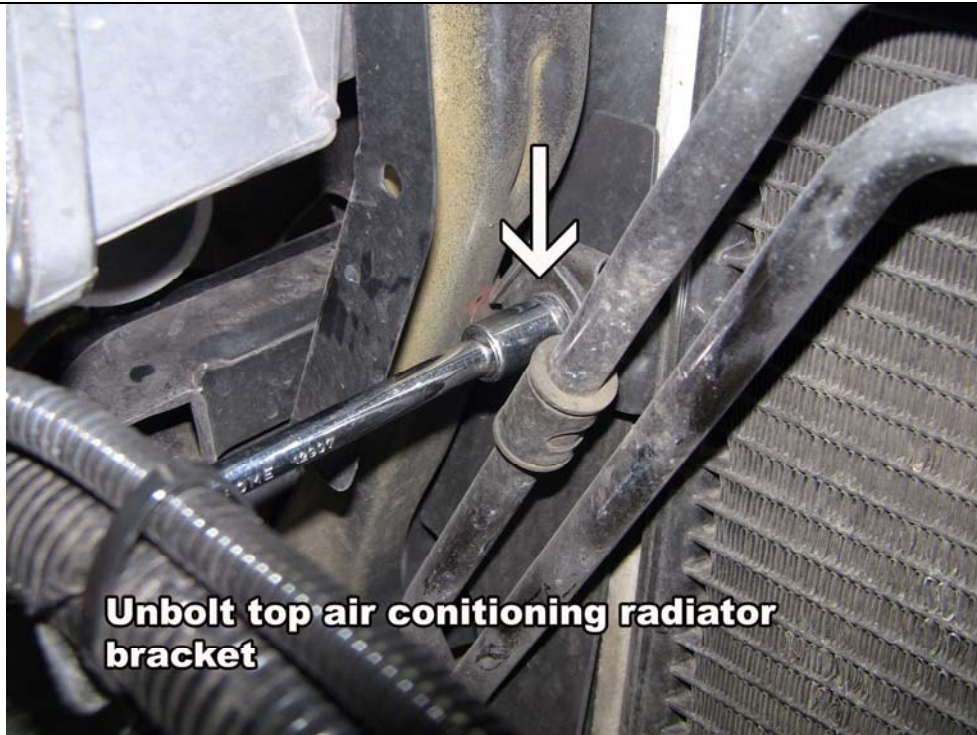
**Unbolt lower air conditioning radiator brackets on the passenger side**



**Unbolt lower air conditioning radiator bracket**

**Unbolt the lower air conditioning bracket on drivers side**





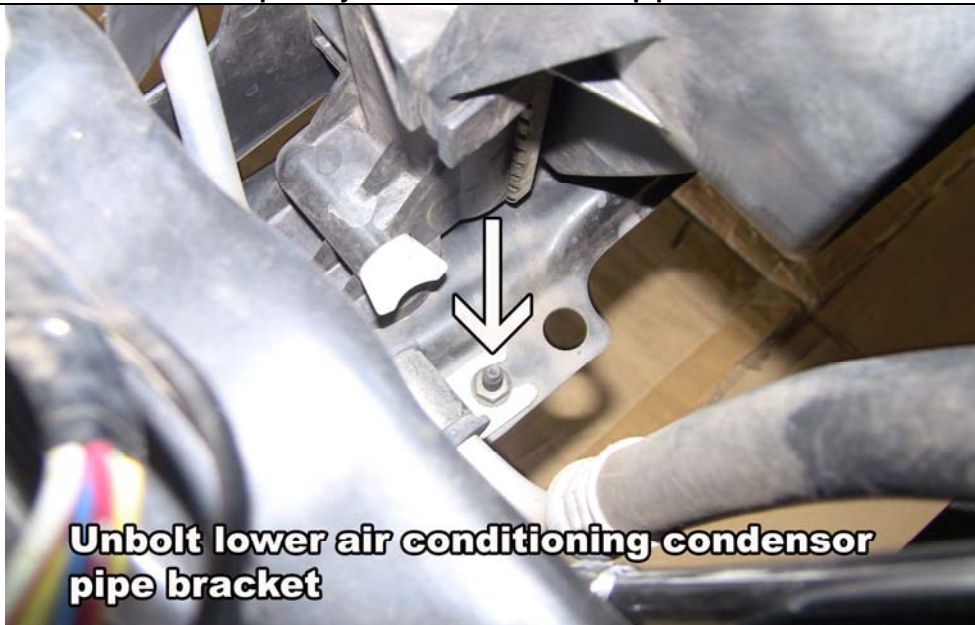
Unbolt top air conditioning radiator bracket



Unbolt the power steering cooler from bracket



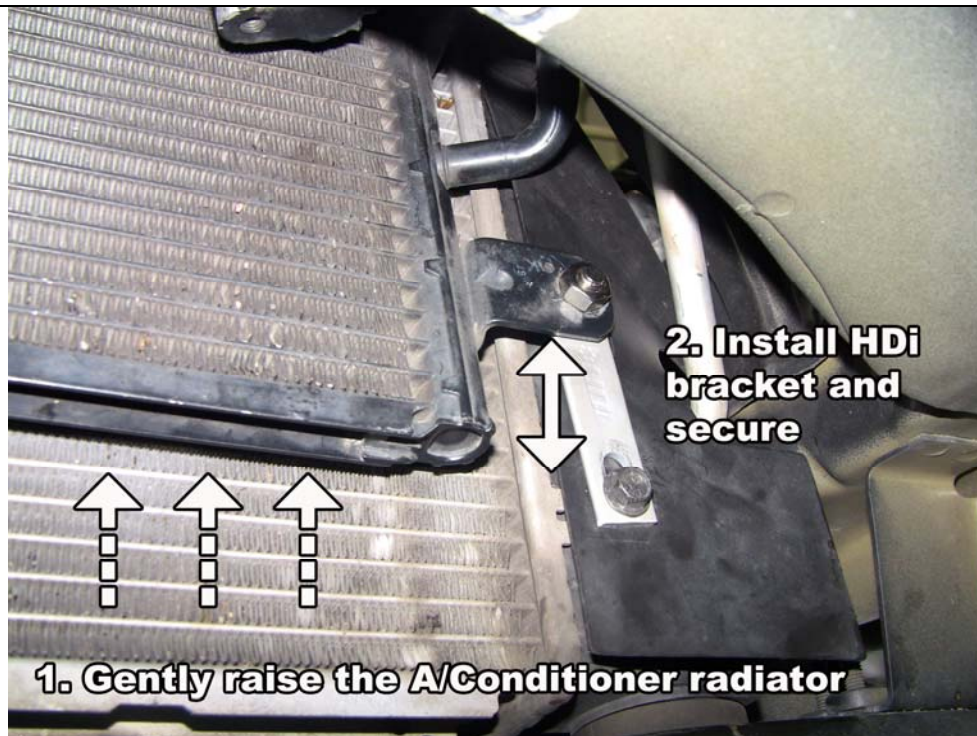
Temporarily unbolt the condenser pipe bracket



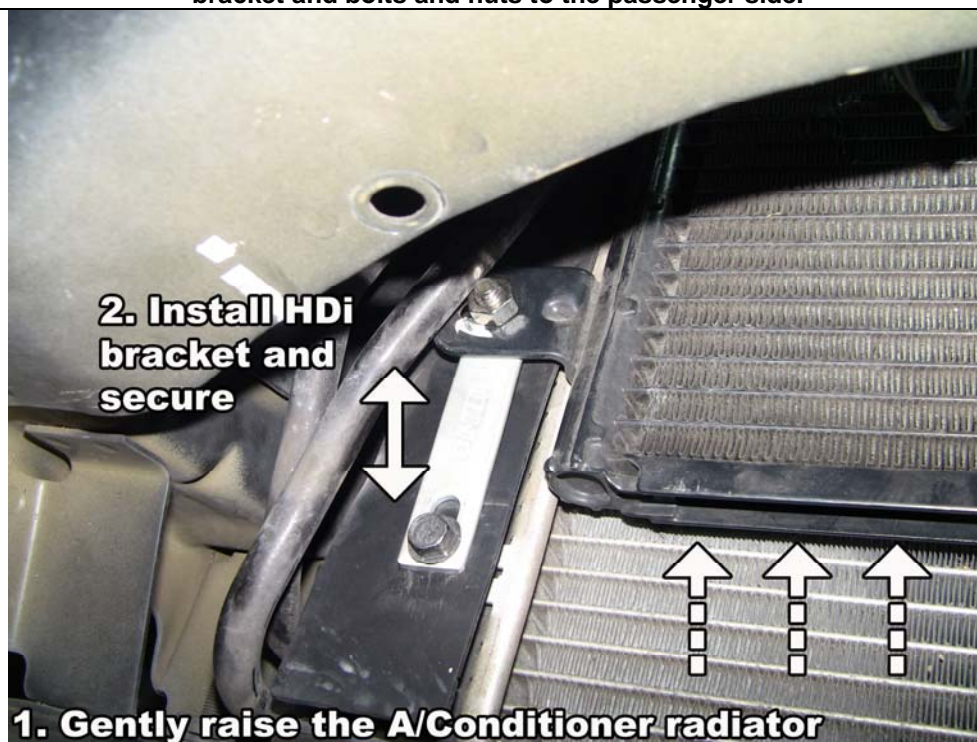
Unbolt the lower air conditioning condenser pipe bracket

**Procedure:** The Air Conditioning Radiator and condenser pipe will need to be raised from its position to allow for intercooler clearance.





Gently raise the air conditioning radiator (includes condenser piping) and secure with the supplied lower bracket and bolts and nuts to the passenger side.

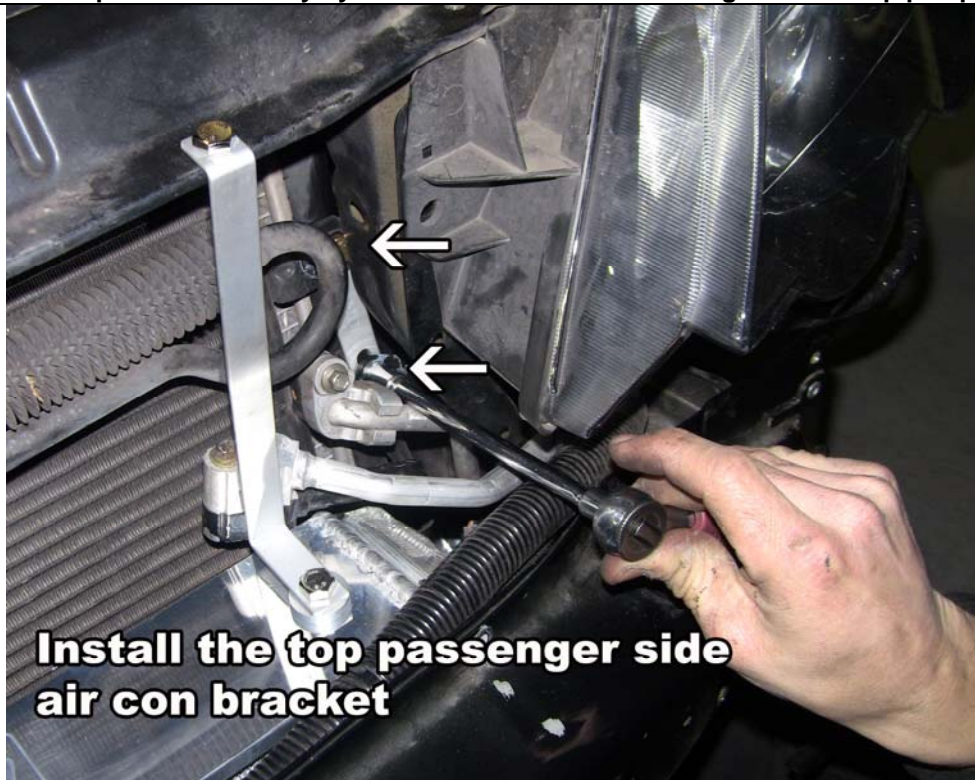


Gently raise the air conditioning radiator and secure with the supplied lower bracket and bolts and nuts to the drivers side.



**GENTLY by hand bend the air conditioning condenser pipe up**

May varies per Model: Gently by hand raise the air conditioning condenser pipe upward



**Install the top passenger side air con bracket**

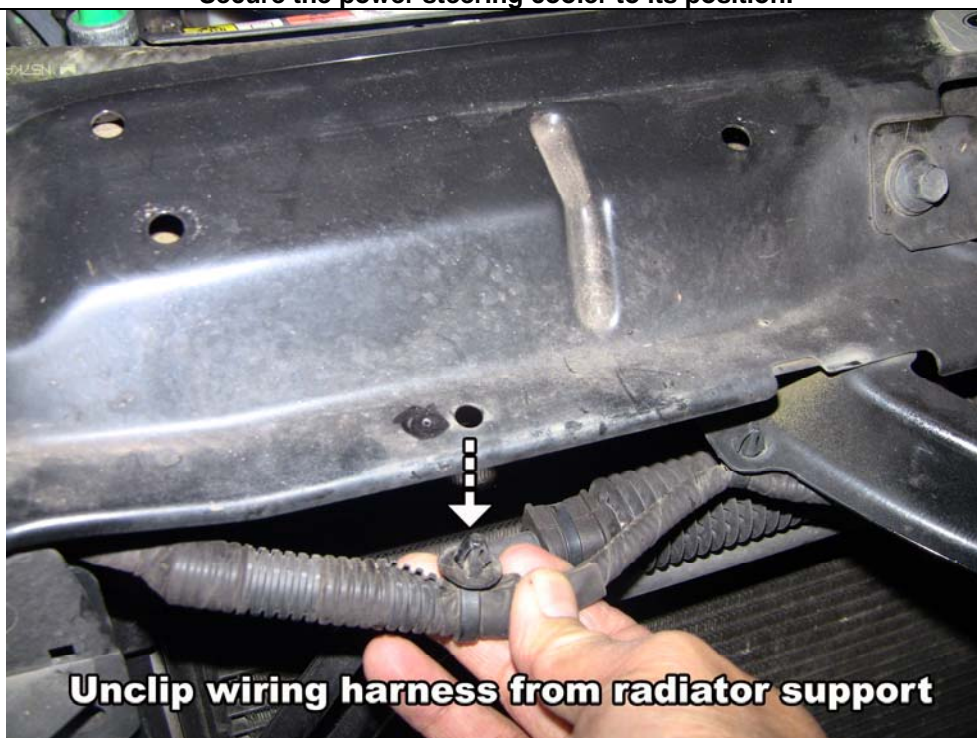
Secure the air conditioning radiator with the supplied top bracket and bolts and nuts to the passenger side.





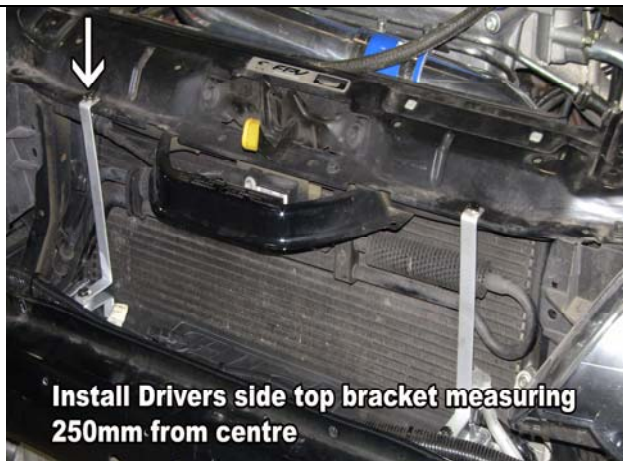
**Install top air con bracket on drivers side**

Secure the air conditioning radiator with the supplied top bracket and bolts and nuts to the drivers side.  
Secure the power steering cooler to its position.



**Unclip wiring harness from radiator support**

Unclip the wiring harness from the top radiator support for intercooler bracket clearance



**Install Drivers side top bracket measuring 250mm from centre**



**Measuring 250 mm from centre install top intercooler bracket**

**TOP INTERCOOLER BRACKET:** Measuring 250mm from the centre, drill a hole to secure the top bracket using the supplied fasteners



**Install the GT2 Intercooler to top brackets**

Fasten  
with  
supplied  
M8 bolts

Carefully slide the HDi GT2 Intercooler behind the bumper support (check for clearance to avoid scratching) and fasten to top intercooler brackets.



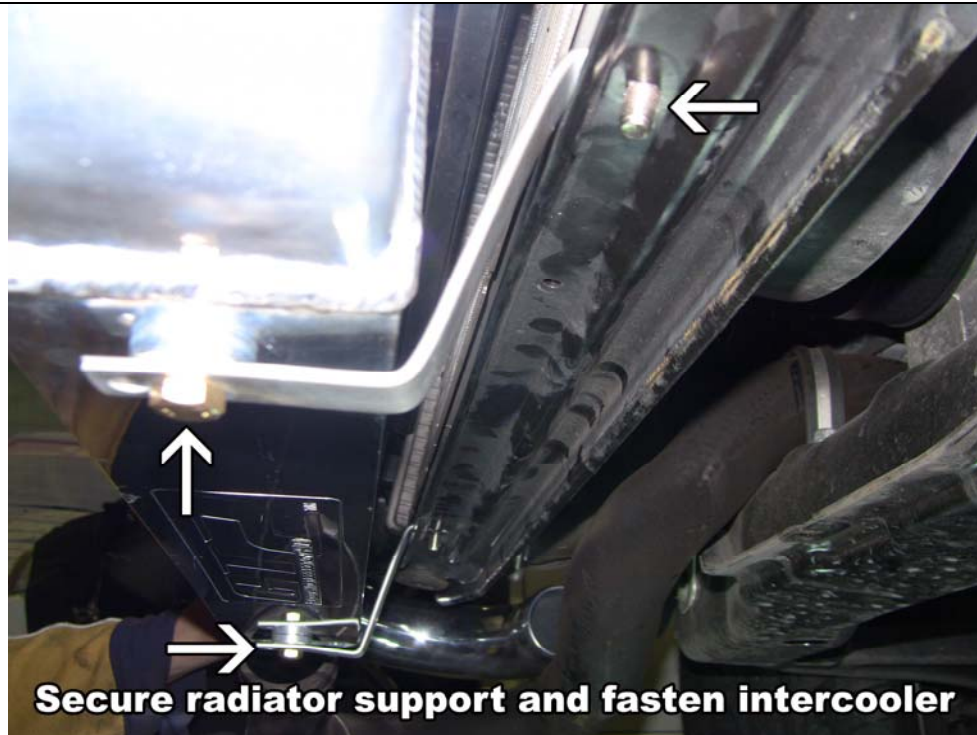
**Mount the lower intercooler brackets to the lower radiator support**

**250mm**

**250mm**

Remove the lower radiator bracket and mount the lower intercooler brackets 250mm from centre on each side to the top side front edge.





Reinstall the lower radiator support and secure the bottom brackets to the GT2 intercooler using the supplied fasteners (brackets may need to be bent to suit alignment of intercooler)



Unscrew intercooler piping clamp from the cross over pipe and under battery pipe. Permanently remove the factory intercooler pipe



Remove or rotate the power steering filler shroud by opening the cap and rotating the shroud. Make sure to secure the cap when finished



Unbolt the factory pressure sensor from the under battery intercooler pipe and carefully remove. Alternately the under battery intercooler pipe can be removed by removing the battery and the drivers side headlight and unbolting the pipe and permanently removed.





**Unplug the wiring harness from the boost pressure sensor**



**Carefully insert the boost pressure sensor into the supplied HDi boost adaptor**



Attach the supplied vacuum hose to the HDi boost adaptor



Fasten the HDi boost adaptor to the under battery intercooler pipe and reconnect the wiring harness. Alternatively if the pipe is removed, mount and fasten the HDi boost adaptor to the body of the vehicle.

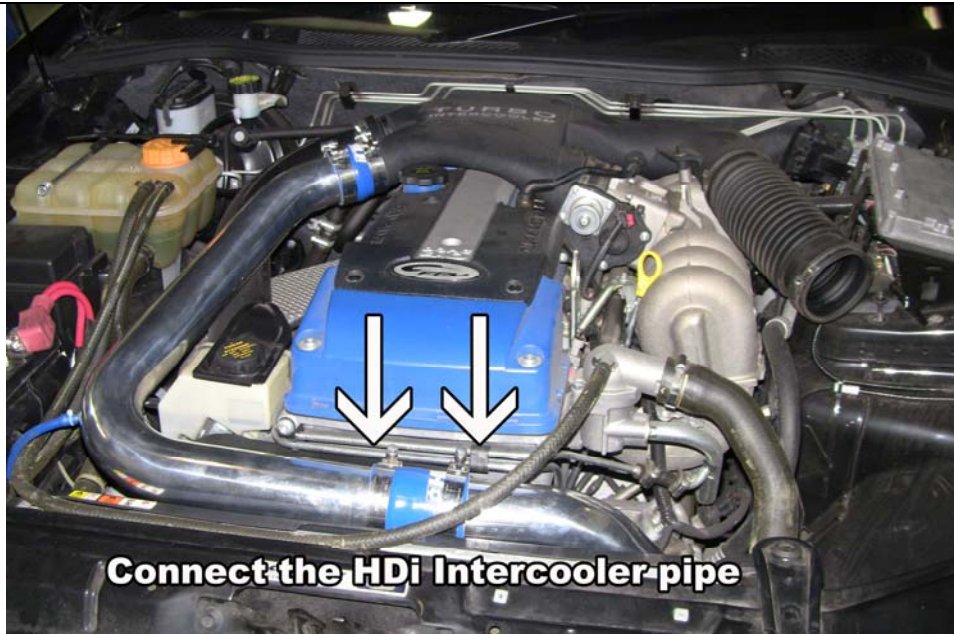




1. Insert the HDi 2.5"- 2.4" silicon reducer to the cross over pipe. Secure tightly with a 2.5" HDi Super Clamp.
2. Place a 2.5" HDi Super Clamp on the HDi intercooler pipe (ALP-XR6-067) and insert the pipe into the HDi silicon reducer. Slide the clamp onto the silicon hose and secure, but not tighten to allow for pipe adjustment.



Cut to length and connect the silicon from the pressure sensor to the HDi intercooler pipe (ALP-XR6-067) fitting. Cable tie if necessary

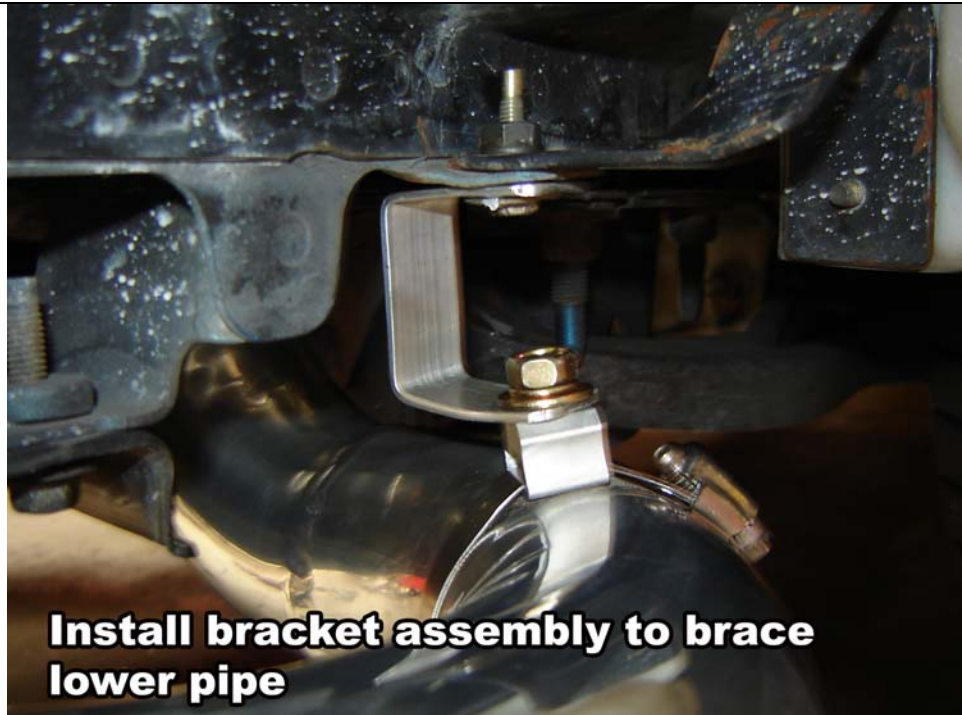


Connect the HDi Intercooler pipe (ALP-XR6-068) to a 2.5" HDi silicon hose and fasten with HDi super clamps. Do not over tighten to allow for pipe adjustment



Connect HDi intercooler pipe ALP-XR6-069 to ALP-XR6-068 using a 2.5" HDi Silicon hose and fasten with HDi Super Clamps. Using a 3 – 2.5" HDi Silicon hose connect the pipe to the GT2 Intercooler and fasten with a 3" and a 2.5" HDi Super Clamp. Do not over tighten to allow for pipe adjustment





**Install bracket assembly to brace lower pipe**

Install the lower pipe (ALP-XR6-069) bracket assembly to secure the pipe



**Install the hot side intercooler pipe to the GT2 Intercooler  
Cut the rubber hose to suit**

Install the HDi intercooler pipe ALP-XR6-070 to the GT2 Intercooler using a 3 – 2.5" silicon hose and fasten with a 3" and 2.5" HDi Super Clamp. The factory rubber hot pipe will need to be cut to length and the HDi intercooler pipe inserted and fastened with the factory clamp. Do not over tighten to allow for pipe adjustment



The HDi GT2 Intercooler and piping is now installed and completed. Check for piping clearance from moving engine parts and secure tightly all HDi Super Clamps. Check all brackets are fastened securely.



For F6 TYPHOON: Install the adaptor and brass fitting to the Boost Gauge pressure sensor and connect the silicon vacuum hose. Next t-piece the vacuum hose into the hose for the Boost Sensor near the battery.





**Connect the wiring harness and fasten where suitable**

**Connect the wiring harness and fasten to a suitable position**



**Trim shaded area for intercooler clearance**

**Trim the internal bumper bar lower end. This may vary dependant on model.**



**Reinstall the bumper bar to complete installation**

**Reinstall the mesh to the bumper bar support, install the bumper bar and connect the fog lights. Then install the lower splash tray (trimming may be required)**

**Note:**

Due to the high flow and low pressure drop characteristic of the HDi intercoolers – the turbo efficiency may increase and the factory boost limiter maybe reached. If this is experienced, please consult an HDi Technical Dealer.

**END**