



## 105 1HZ ULTIMATE

### **W A R N I N G**

WARNING: Failure to follow this procedure will void your warranty.

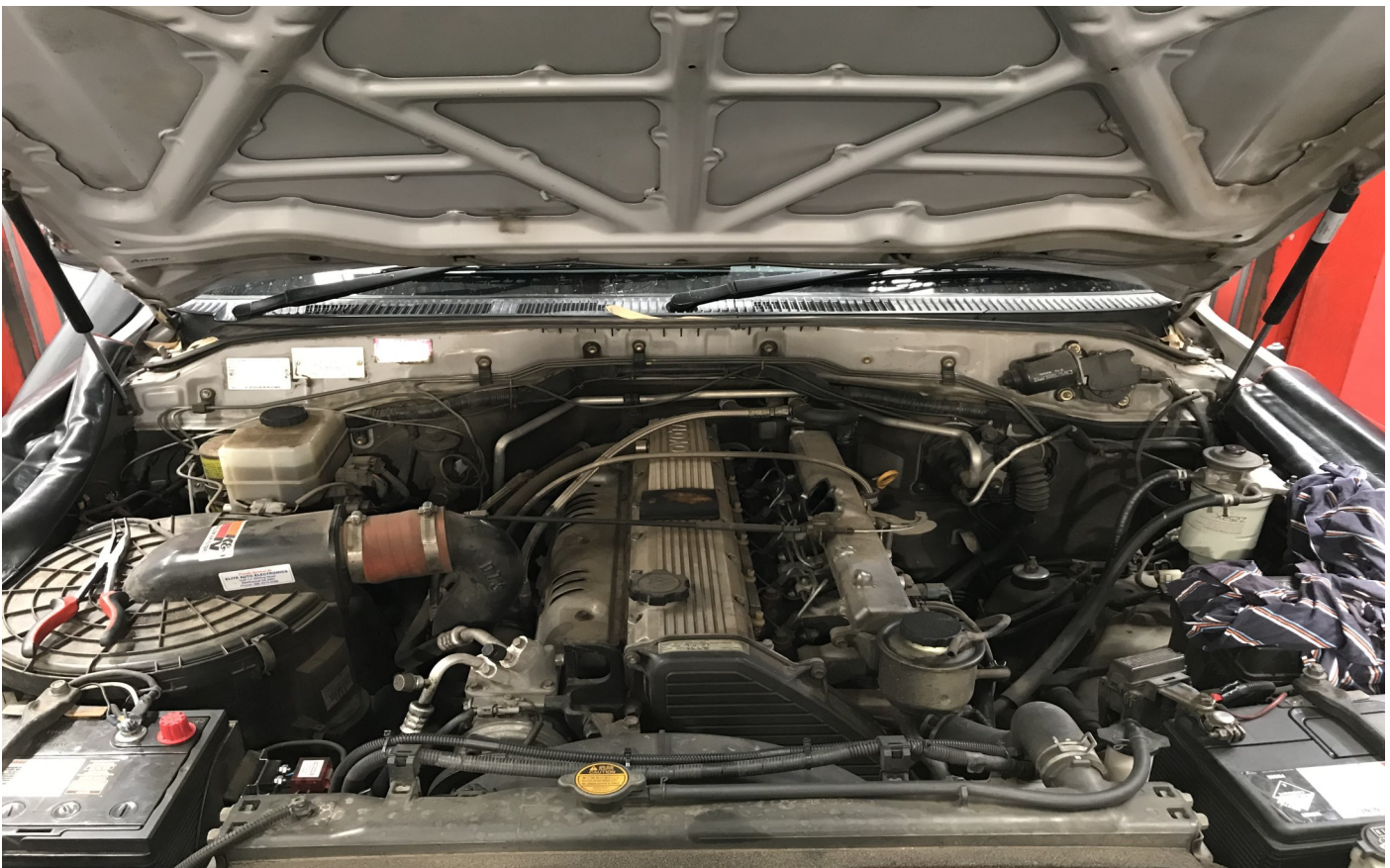
- Do not use this product in any other motor vehicle for which it is not designed.
- Do not use any other mounting location / method other than described in this instruction.
- It is advisable to seek assistance of another person when installing this product.
- Do not repair or modify this product and / or its mounting bracket in any way - repair or modification may affect proper operation of the vehicle or cause destruction of property.
- Be sure to clean and remove any loose debris before removing pipe work as debris entering the engine could be detrimental to the engine and or components

BEFORE STARTING THE INSTALL OF YOUR INTERCOOLER PLEASE CONFIRM YOU HAVE THE CORRECT KIT. THE KITS FOR EGR FITTED CARS AND NON EGR AND AUTOMATIC CARS ARE SLIGHTLY DIFFERENT.

105 LANDCRUISERS DID NOT COME OUT FACTORY TURBO. WE FIND VARIATIONS BETWEEN KITS REGARDING WHAT ANGLE SILICONES WE PROVIDE ON THE TURBO SIDE. PLEASE MAKE SURE THIS IS CORRECT BEFORE STARTING THE INSTALLATION OF THE INTERCOOLER.

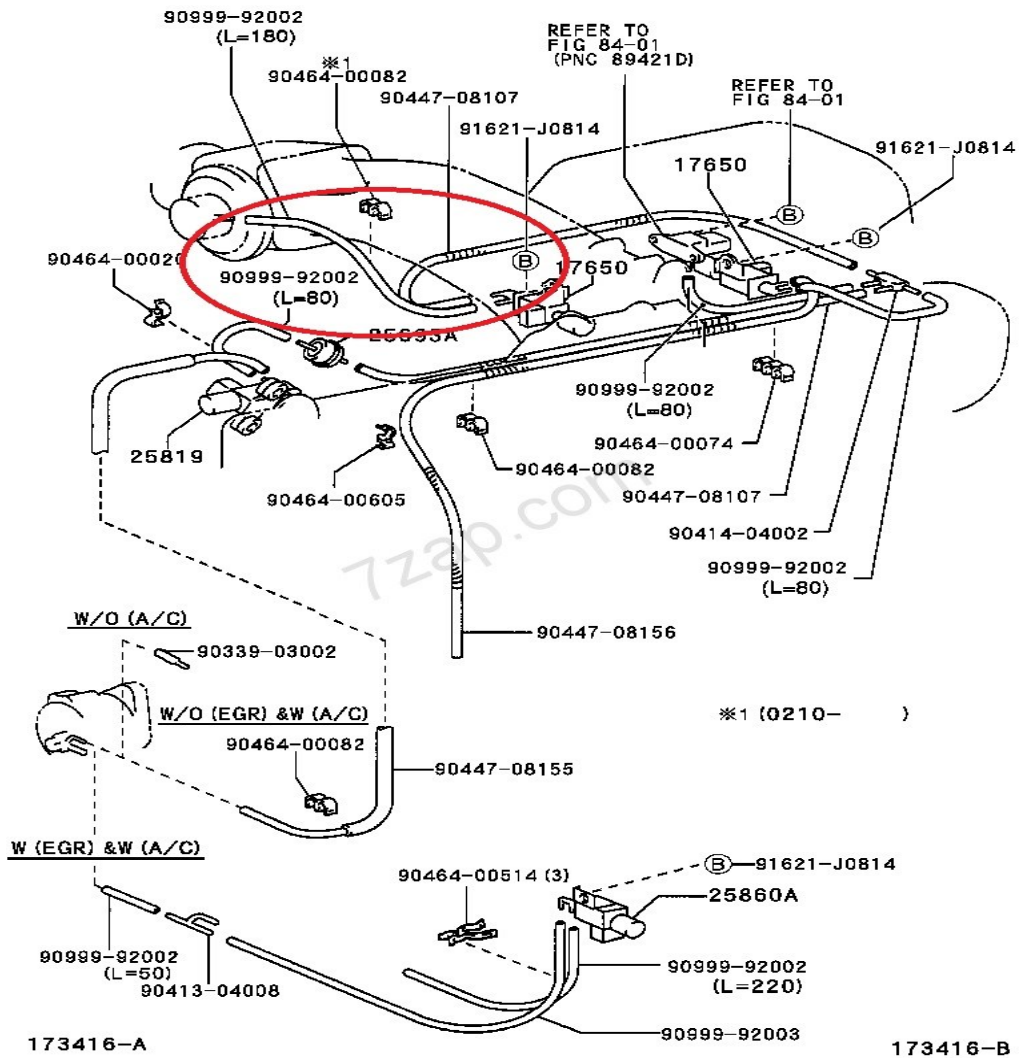


START WITH THE REMOVAL OF THE UNDERBONNET SOUND DEADENING KEEPING ALL THE CLIPS. REMOVE THE CROSSOVER PIPE AND PIPEWORK TO THE TURBO REMOVE CROSSOVER PIPE SUPPORT BRACKET. IF FITTED WITH AN EGR REMOVE EGR PIPE AND INSTALL EGR BLANK PLATE SUPPLIED.

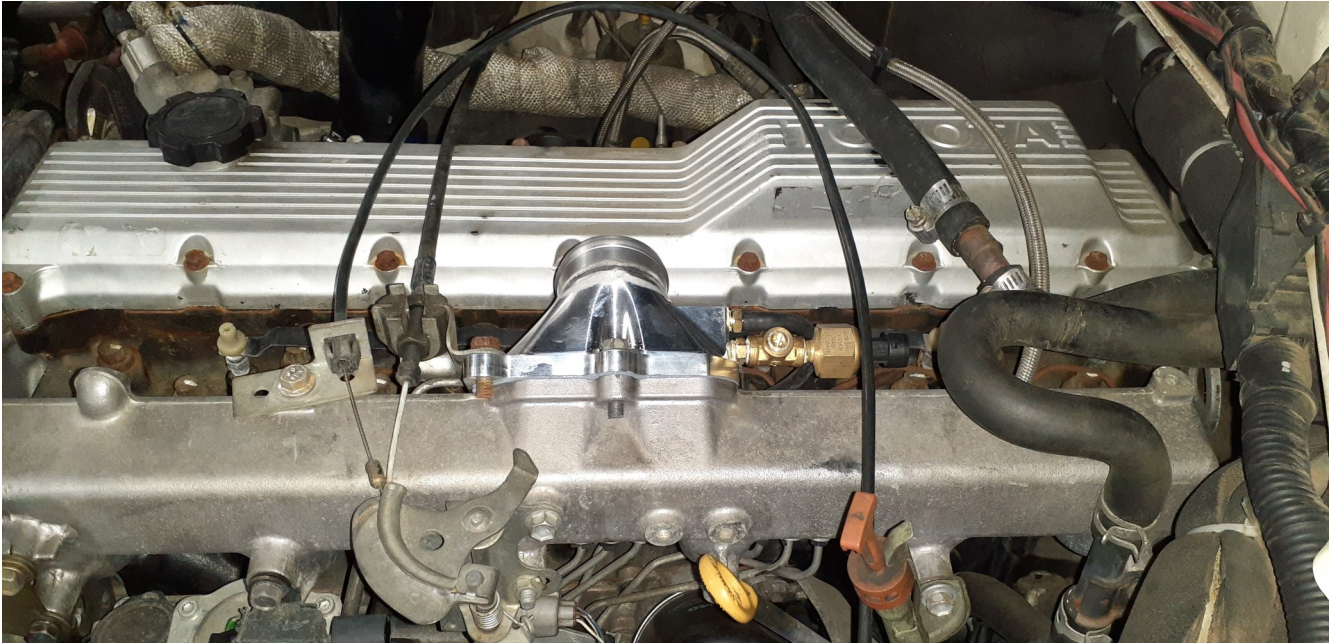




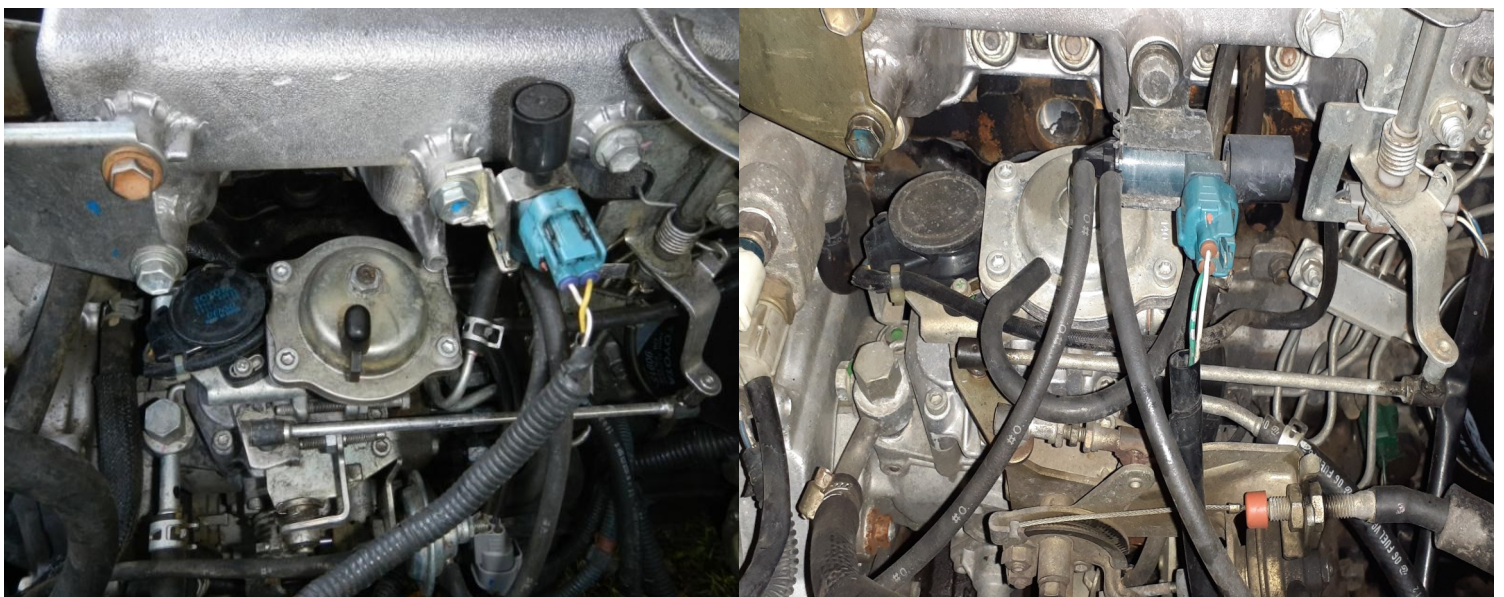
CARS FITTED WITH AN EGR, BLOCK VACUUM LINE RUNNING TO THE EGR DIAPHRAGM. LEAVE ALL OTHER SENSORS ATTACHED, MOVE THE BLACK SENSOR AND BLUE SOLENOID ON THE CROSSOVER PIPE WITH SUPPLIED BRACKET ONTO THE SIDE OF THE INTAKE MANIFOLD.



INSTALL INLET ADAPTOR WITH SILICONE SEALER RE INSTALLING THE THROTTLE CABLE BRACKET AT THE SAME TIME.



IF THE VEHICLE IS FITTED WITH AN ALTITUDE OR BOOST COMPENASTOR ON THE FUEL PUMP, RUN THE SUPPLIED VAC HOSE FROM THE FITTING ON THE INLET ADAPTOR TO THE TOP OF THE FUEL PUMP. ON A STOCK ALTITUDE COMPENSATED PUMP THE VACUUM LINE ON THE REAR OF THE PUMP WILL NEED TO BE VENTED TO THE ATMOSPHERE. IF YOU HAVE ANY QUESTIONS PLEASE CALL CROSS COUNTRY 4X4 ON 08 8357 5993





CUT AND FIT WATER HOSE AS SHOWN, ANGLE METAL PIPE BACK TOWARDS THE FIREWALL AS SHOWN







INSTALL SILICONES AND ALI PIPE AS SHOWN. THE REAR SILICONE MAY NEED TO BE TRIMMED FOR CLEARANCE. TIGHTEN HOSE CLAMPS SHOWN. LEAVE OTHERS LOOSE FOR NOW.

IF AUTO INSTALL TRANSMISSION DIPSTICK BRACKET AS SHOWN FOR CLEARANCE TO PIPE WORK.





REMOVE BOLTS SHOWN ON FIREWALL. WHEN FITTING THE INTERCOOLER THE FRAME TAGS WILL GO BETWEEN THE FIREWALL AND THE BRACKETS HOLDING THE BRAKE LINES.



SOME AIRBOX TO TURBO PIPES WILL HAVE TO BE MODIFIED AS THE BREATHER FITTING MAY FOUL ON THE INTERCOOLER. FOR EXAMPLE THE BELOW DTS PIPE HAS BEEN MODIFIED TO MOVE THE BREATHER FITTING DOWN. THE AIRBOX LID MAY NEED TO BE ROTATED SLIGHTLY TO HELP CLEAR THE INTERCOOLER.





SIT THE INTERCOOLER ON THE CAR AND DO UP THE REAR MOUNTING BOLTS WITH THE M6X25 PANEL BOLTS SUPPLIED.

MARK THE 2 FRONT MOUNTING HOLES.

PLACE THE 4 FOAM SQUARES ON THE OUTER EDGES OF THE INTERCOOLER STICKY SIDE UP, SEE BELOW PIC. GENTLY CLOSE THE BONNET SO THE FOAM SQUARES TRANSFER TO THE UNDERSIDE OF THE BONNET. LEAVE FOR NOW. REMOVE THE INTERCOOLER AND DRILL THE 2 FRONT MOUNTING HOLES MAKING SURE NOT TO DRILL THROUGH ANY WIRES.

REINSTALL THE INTERCOOLER FOR GOOD, USING SUPPLIED NUTS AND BOLTS FRONT AND REAR.

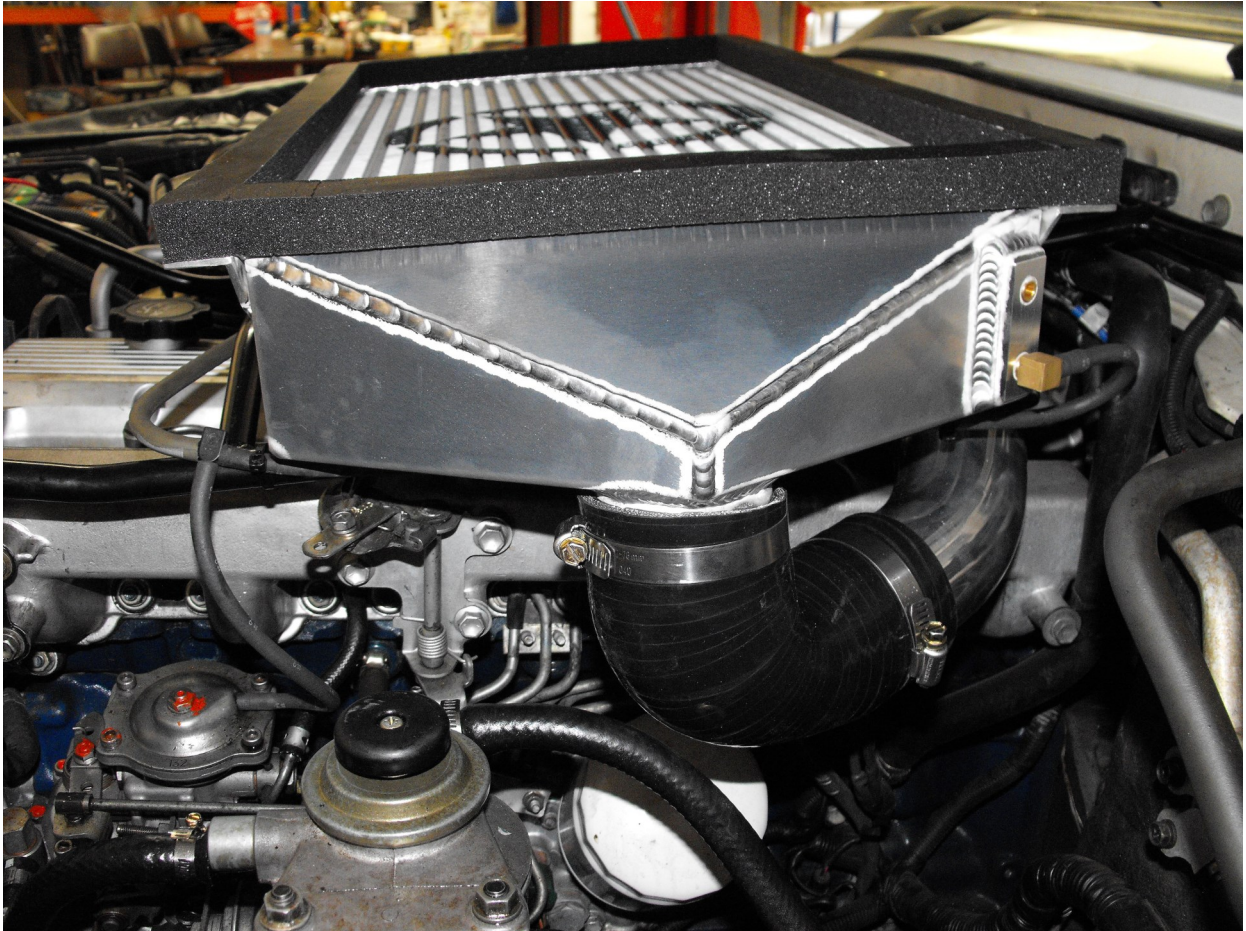








WITH THE INTERCOOLER FITTED TRIM SILICONE SHOWN AND FIT. TIGHTEN REMAINING HOSE CLAMPS.  
(NOTE 80 SERIES SHOWN)





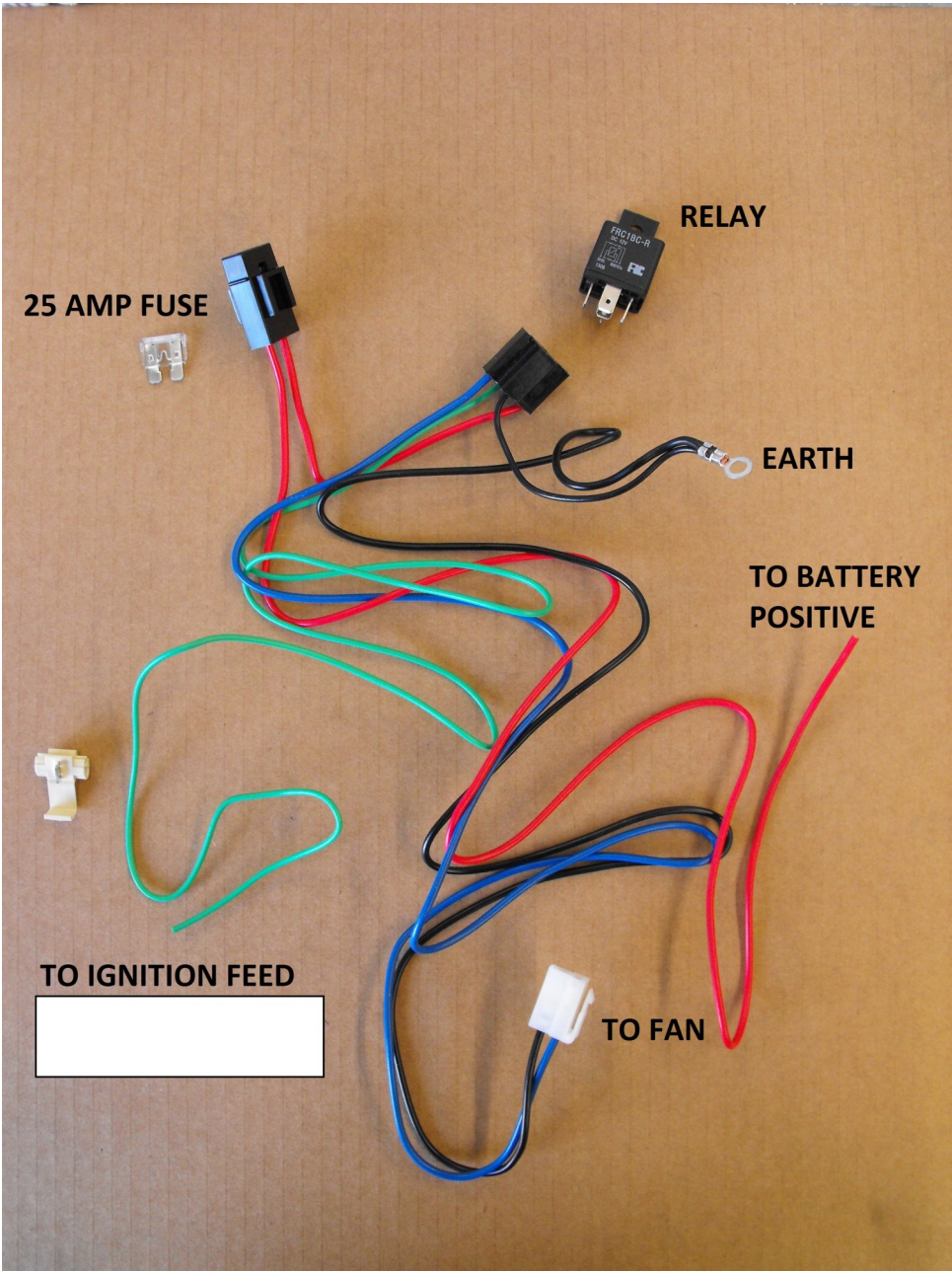
WITH THE INTERCOOLER FITTED TRIM THE 2 SILICONES ON THE TURBO SIDE TO FIT, ONCE CUT ASSEMBLE WITH ALLUMINIUM JOINER

DEPENDING ON WHAT TURBO KIT IS FITTED TO THE CAR EITHER 2 X 90 DEGREE SILICONES OR 2 X 45 DEGREE SILICONES WILL BE SUPPLIED. DENCO, SAFARI AND DTS KITS NORMALLY NEED 45 DEGREE SILICONES. IF THE TURBO IS A FACTORY STYLE 1HDT 90 DEGREE ARE MORE SUITABLE.

IF THIS WAS NOT DISCUSSED AT TIME OF ORDERING PLEASE CHECK WITH US BEFORE STARTING THE INSTALL OF THE INTECOOLER ON 08 8357 5993



WITH INTERCOOLER FITTED INSTALL THE WIRING LOOM FOR THE FAN. WE RECOMMEND RUNNING THE FAN WHEN THE IGNITION IS ON. A GOOD PLACE TO PICK UP IGNITION IS THE WIPER MOTOR.





WITH THE BONNET REMOVED DOUBLE CHECK THE DIMENSIONS CORRELATE TO THE INTERCOOLER.  
FOLLOW THE INSTRUCTIONS SUPPLIED WITH THE SCOOP.

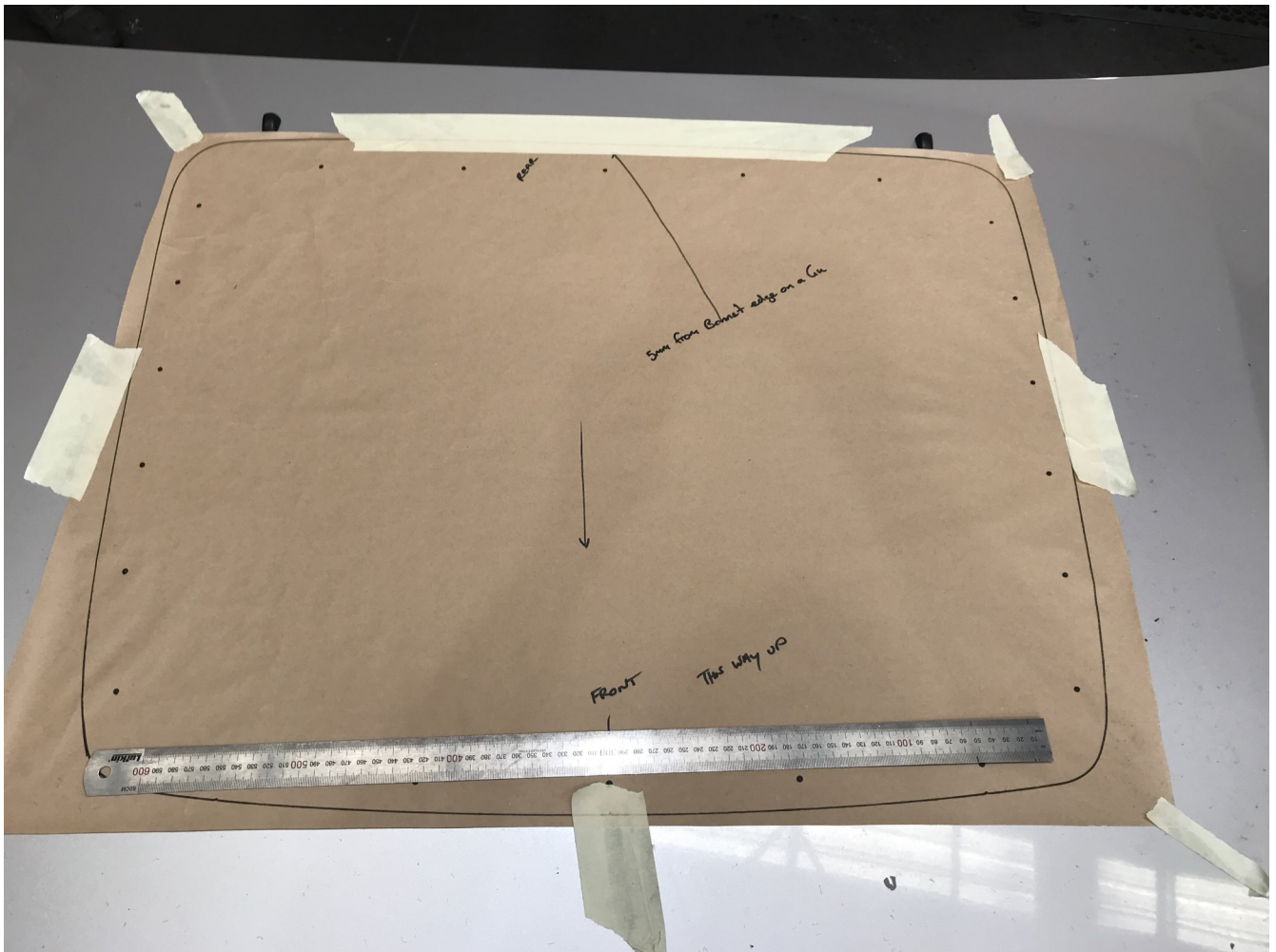


CUT OUT THE WEBBING AS SHOWN. REMOVE BONNET GLUE AND DEBURR ALL EDGES. READY FOR PAINT.

FLIP BONNET OVER AND USE SUPPLIED TEMPLATE TO MARK SCOOP MOUNTING HOLES.

ON THE 105 WE RECOMMEND PLACING THE SCOOP JUST IN FRONT OF THE WASHER JETS.

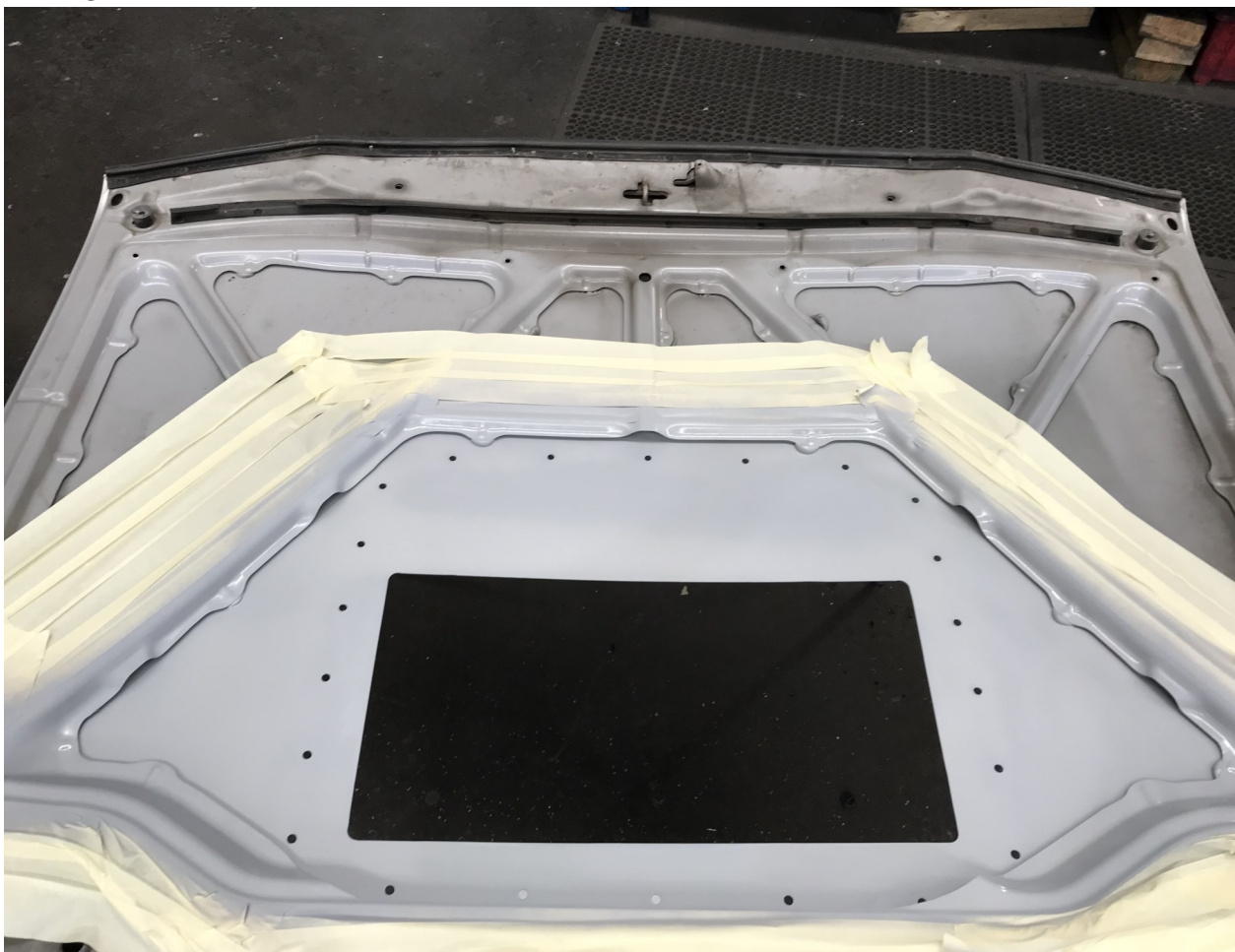
(NOTE FAIRLINE FIBREGLASS TEMPLATE SHOWN)





ONCE ALL SCOOP MOUNTING HOLES ARE DRILLED CUT OUT THE HOLE FOR THE INTERCOOLER AND PAINT ALL SURFACES.

IF THE SOUND DEADENING IS IN GOOD CONDITION IT CAN BE TRIMMED AS PICTURE AND RE FITTED. SOME EXTRA MOUNTING HOLES MAY NEED TO BE DRILLED THROUGH THE WEBBING FOR THE SOUND DEADENING.



NOTE 100 SERIES SHOWN

RE INSTALL THE BONNET. CHECK ALL BOLTS AND HOSE CLAMPS ARE TIGHT AND TEST DRIVE THE VEHICLE.  
AFTER A FEW HEAT CYCLES RE TENSION THE HOSE CLAMPS AND CHECK PERIODICALLY AT EACH SERVICE.  
LEAVE THE WHITE PAPER ON THE FOAM FOR A WEEK OR SO TILL THE PAINT HAS FULLY CURED.

