



W A R N I N G

TOYOTA LANDCRUISER 105FTEULT ULTIMATE CONVERSION

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

THERE ARE TWO VARIATIONS OF MOTORS 1HDFTE MOTORS 79 SERIES AND EARLY 100 SERIES VEHICLES HAVE A VACUUM OPERATED SHUT OFF VALVE AND THE LATER IS ELECTRONIC. THE KITS WE SUPPLY ARE DIFFERENT FOR THE TWO VARIATIONS. PLEASE CHECK THE KIT IS CORRECT BEFORE STARTING THE INTERCOOLER INSTALL.



START WITH THE REMOVAL OF THE FACTORY INTERCOOLER AND PIPE WORK AND CROSS OVER PIPE.

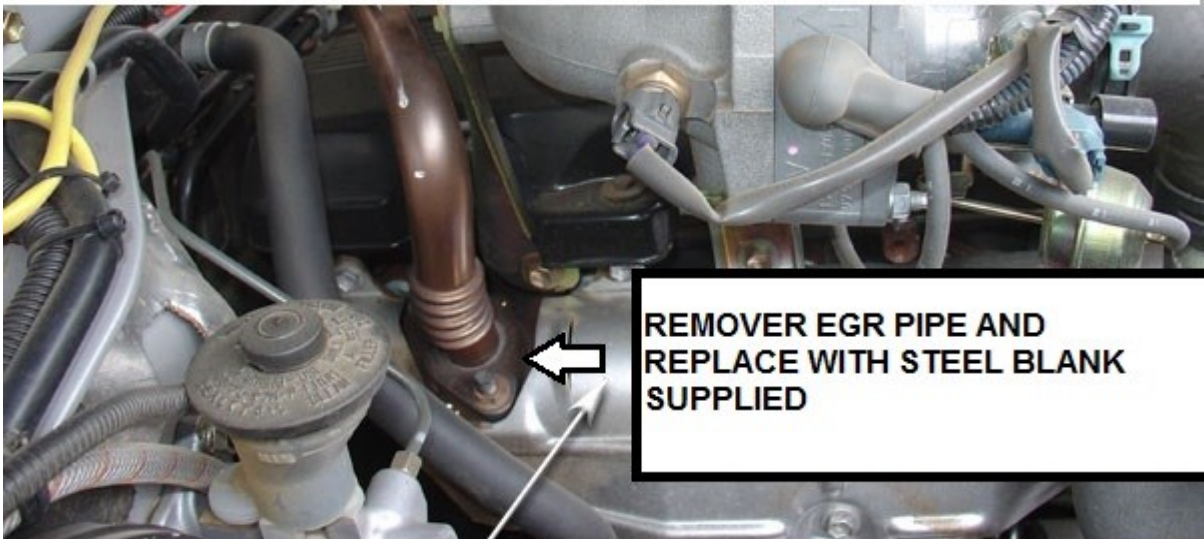
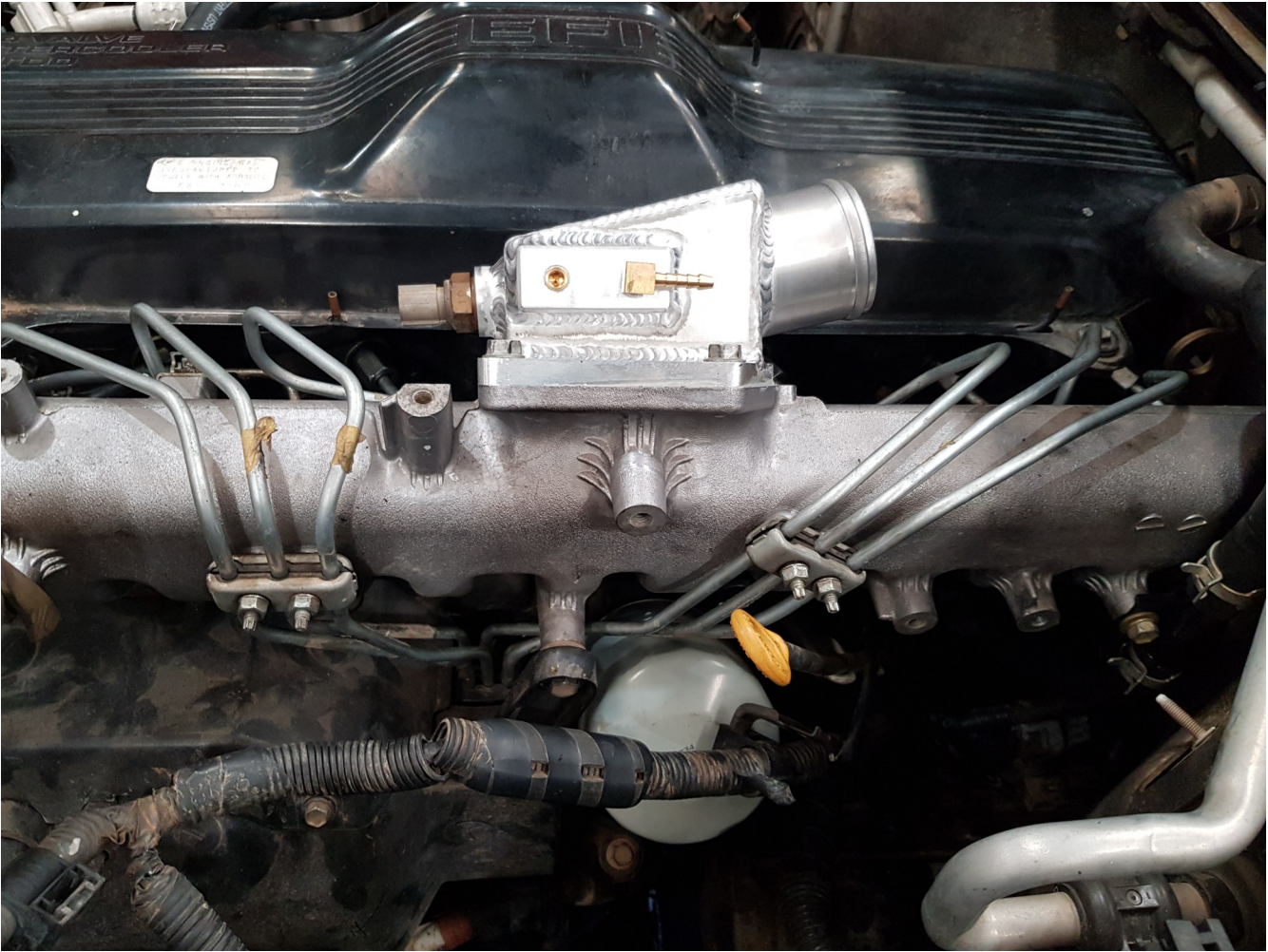
SEPARATE THE THROTTLE BODY KEEPING THE BLUE SOLENOID ATTACHED, MAP SENSOR WITH BLUE SOLENOID AND AIR TEMP SENSOR FROM THE CROSS OVER PIPE. ALL OTHER COMPONENTS FROM THE CROSS OVER PIPE CAN BE REMOVED PERMANENTLY.

WITH THE CROSS OVER PIPE REMOVED. REMOVE EGR PIPE AND BLANK WITH SUPPLIED BLANKING PLATE.

FIT AIR TEMP SENSOR TO THE INLET ADAPTOR AND INSTALL INLET ADAPTOR USING SILICON SEALANT.

FIT TURBO ADAPTOR IF USING FACTORY TURBO USING SILICON SEALANT.

REMOVE THE ROCKER COVER STEEL COVER TO ALLOW ENOUGH CLEARANCE FOR THE INTERCOOLER.

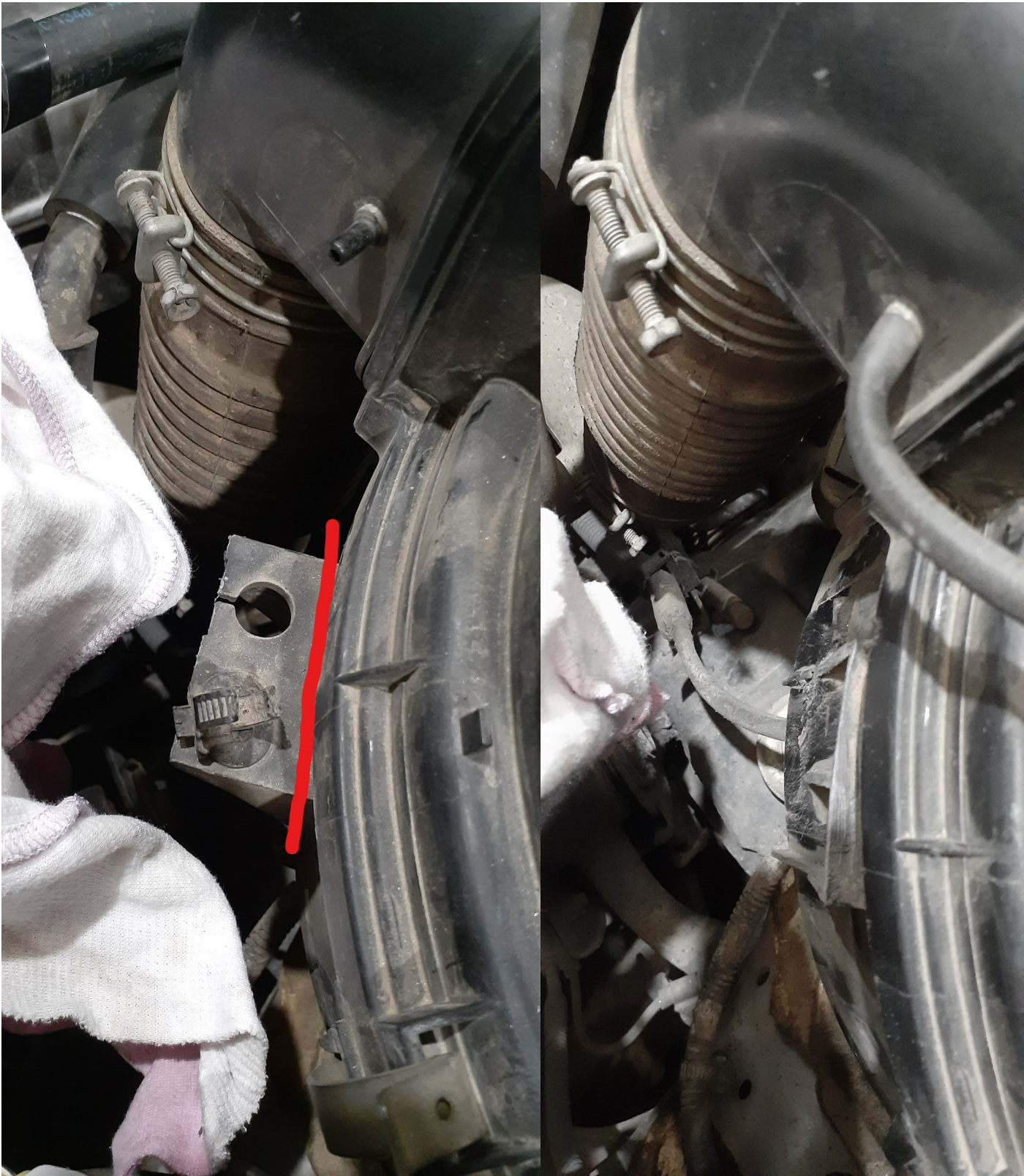


Exhaust Manifold & Heat Shield



REMOVE HEATER HOSE FROM FIREWALL AND ROTATE AS SHOWN. ROTATE METAL BRACKET FOR THE HEATER HOSE AS SHOWN AND UN BOLT WIRING LOOM

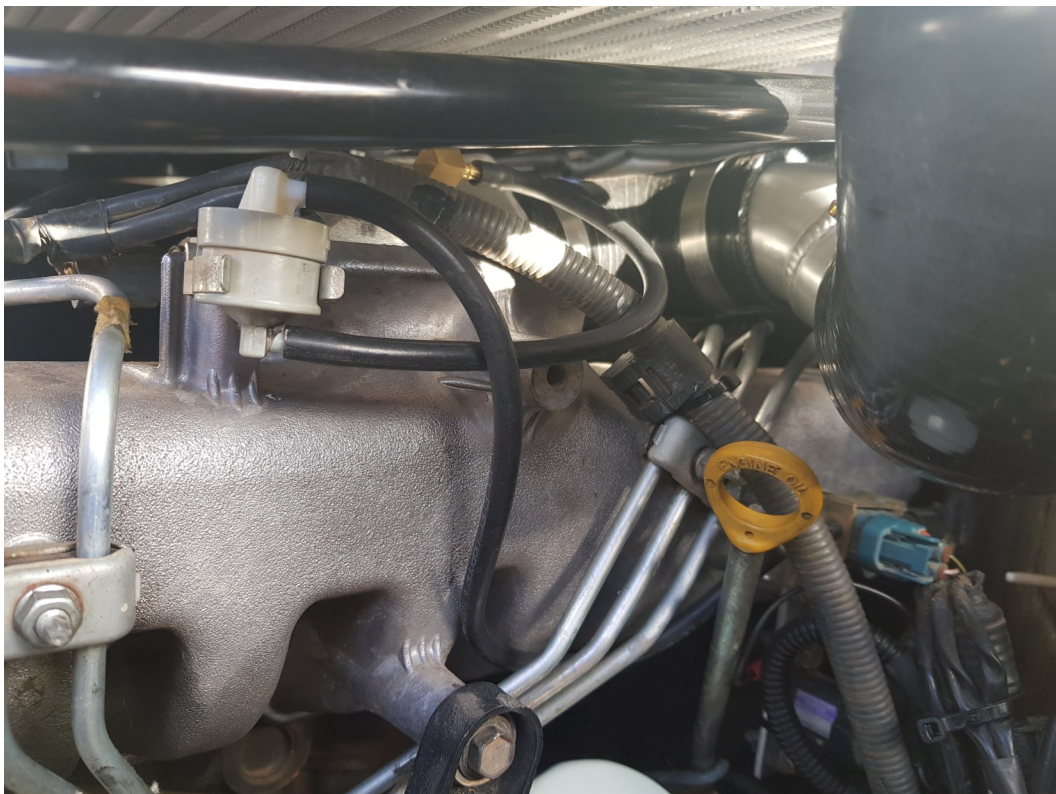
ON MODELS WITH AN ELECTRONIC OPERATED SHUT OFF VALVE THIS BRACKET ON THE AIRBOX WILL NEED TO BE REMOVED.



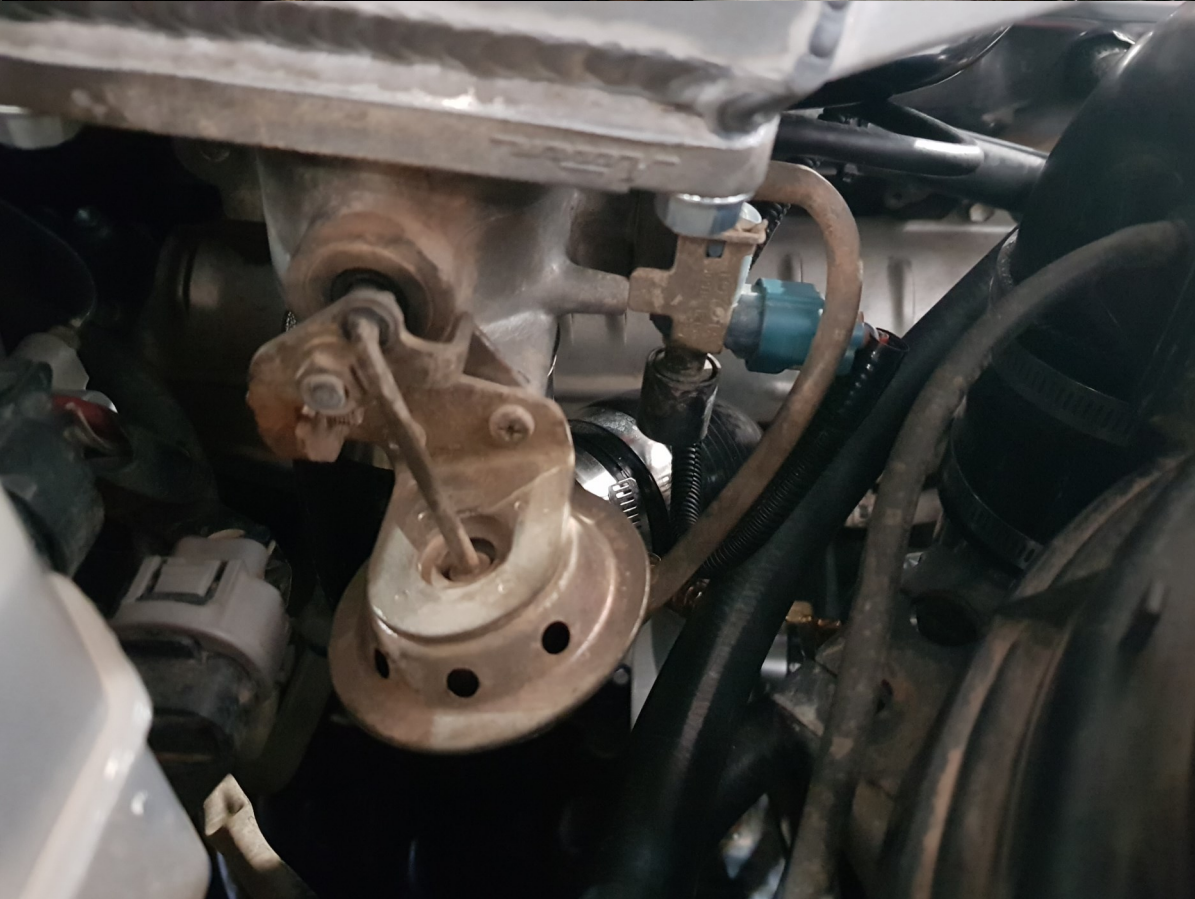
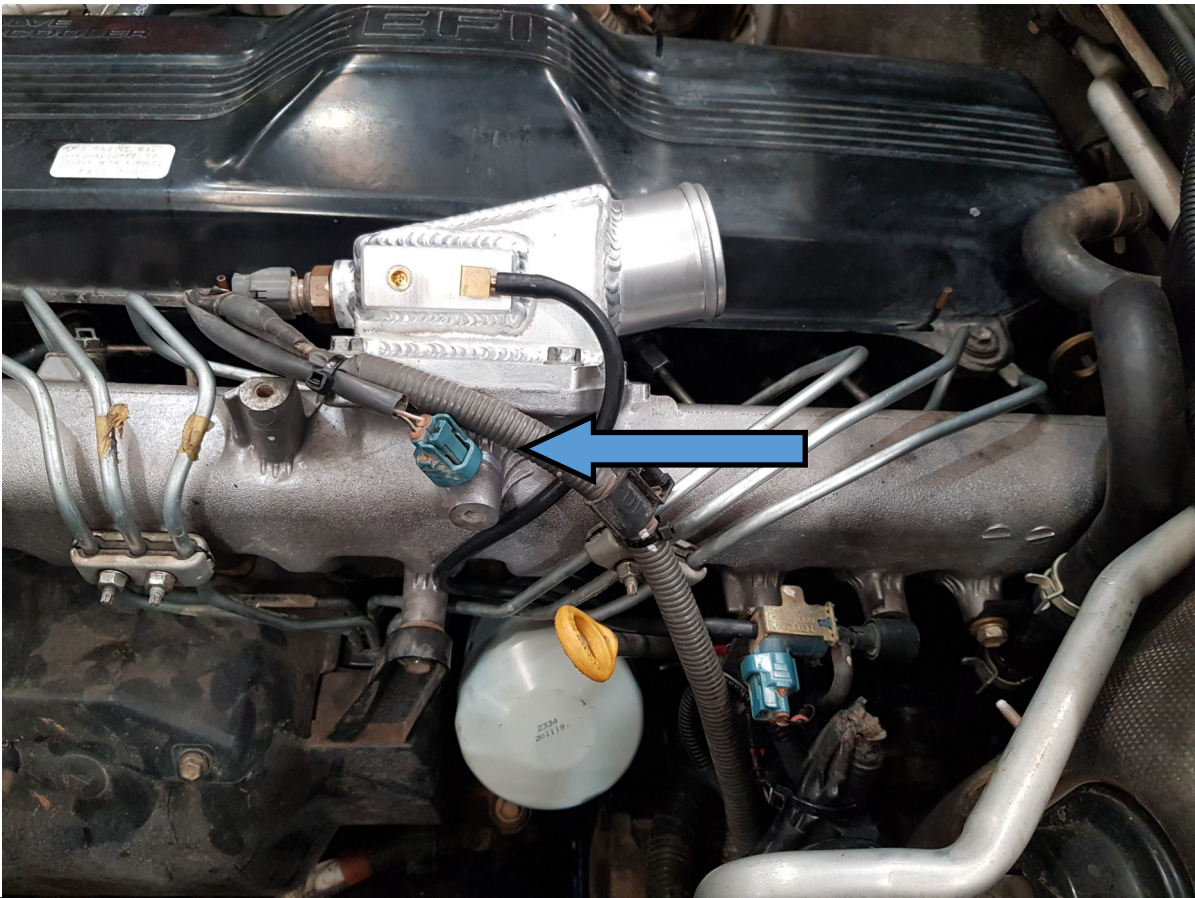


ASSEMBLE MAP SENSOR AS SHOWN USING SUPPLIED BRACKET AND BOLT ON TO MANIFOLD. PLUMB VAC LINES AS SHOWN AND CONNECT ELECTRICAL CONNECTORS AS SHOWN.

ON CARS EQUIPPED WITH AN ELECTRONIC THROTTLE BODY THERE WILL BE AN EXTENSION LOOM YOU WILL NEED TO CONNECT TO THE THROTTLE BODY.



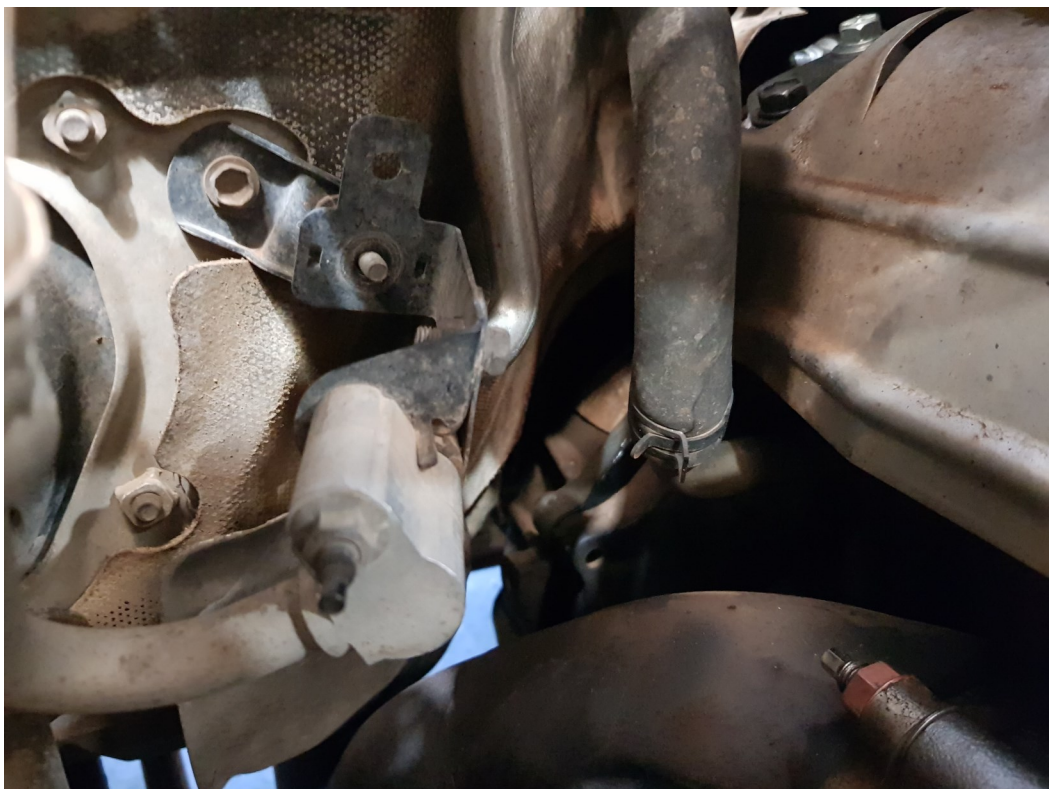
ON VEHICLES WITH A VACUUM THROTTLE BODY USE THE EXTENSION LOOM TO EXTEND TO THE THROTTLE BODY



ON VEHICLES WITH ELECTRONIC THROTTLE BODY USE EXTENSION LOOM TO EXTEND THE PLUGS SHOWN TO REACH THE THROTTLE BODY.

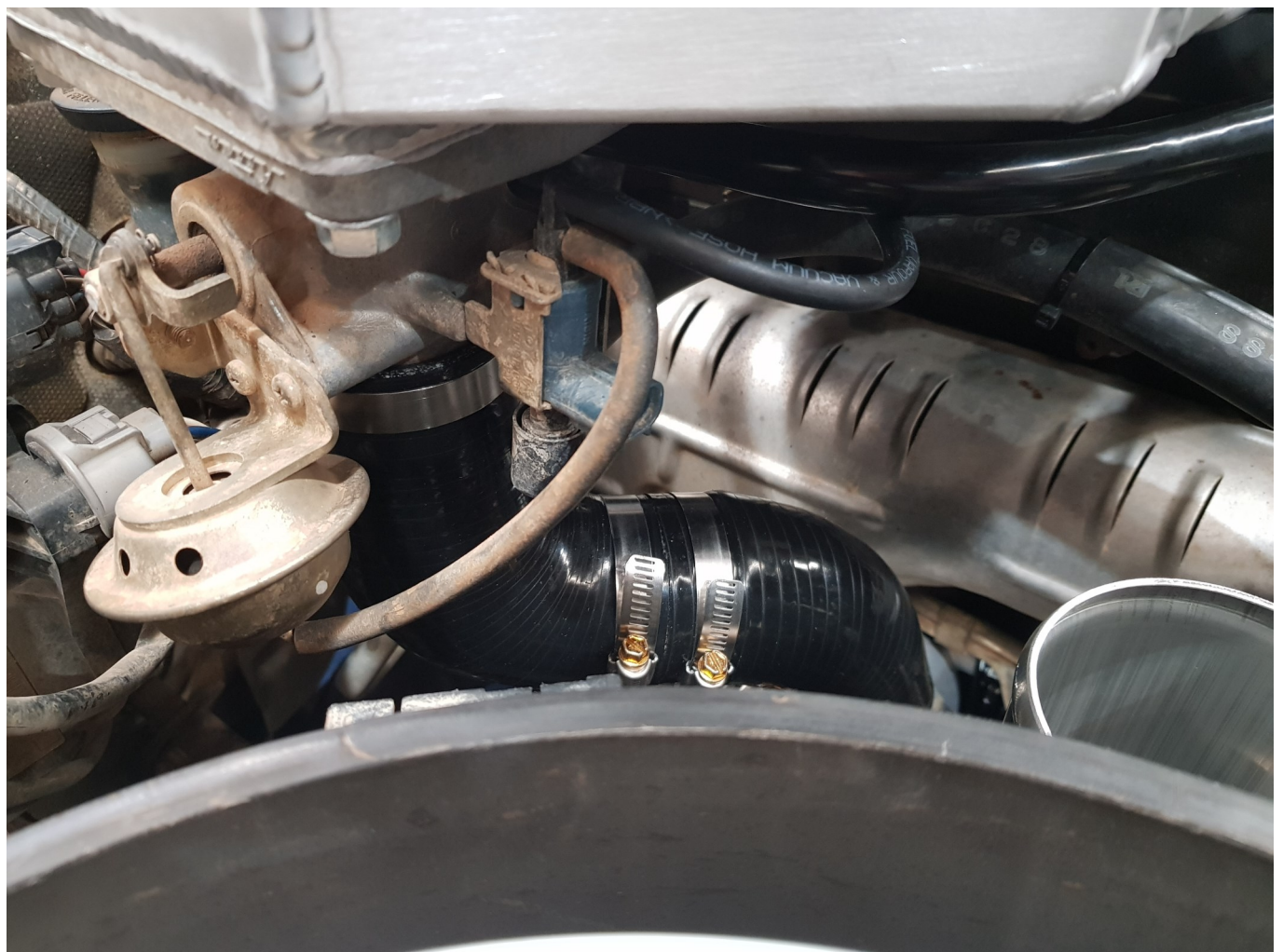


THE AIRCON LINE ON THE DRIVERS SIDE OF THE CAR WILL NEED TO BE ADJUSTED. REMOVE BOLT AS SHOWN. ADJUST AIRCON LINE TOWARDS THE MOTOR TO CLEAR THE INTERCOOLER PIPE WORK. ONCE ADJUSTED ADJUST BRACKET TO BE ABLE TO BOLT BACK ON. REPLACE BOLT AS SHOWN.



ON MODELS WITH AN ELECTRONIC THROTTLE BODY THE LINE OFF THE VACUUM PUMP WILL NEED TO BE BLOCKED. THERE IS A BLANK ON THE ROCKER COVER THAT CAN BE USED.

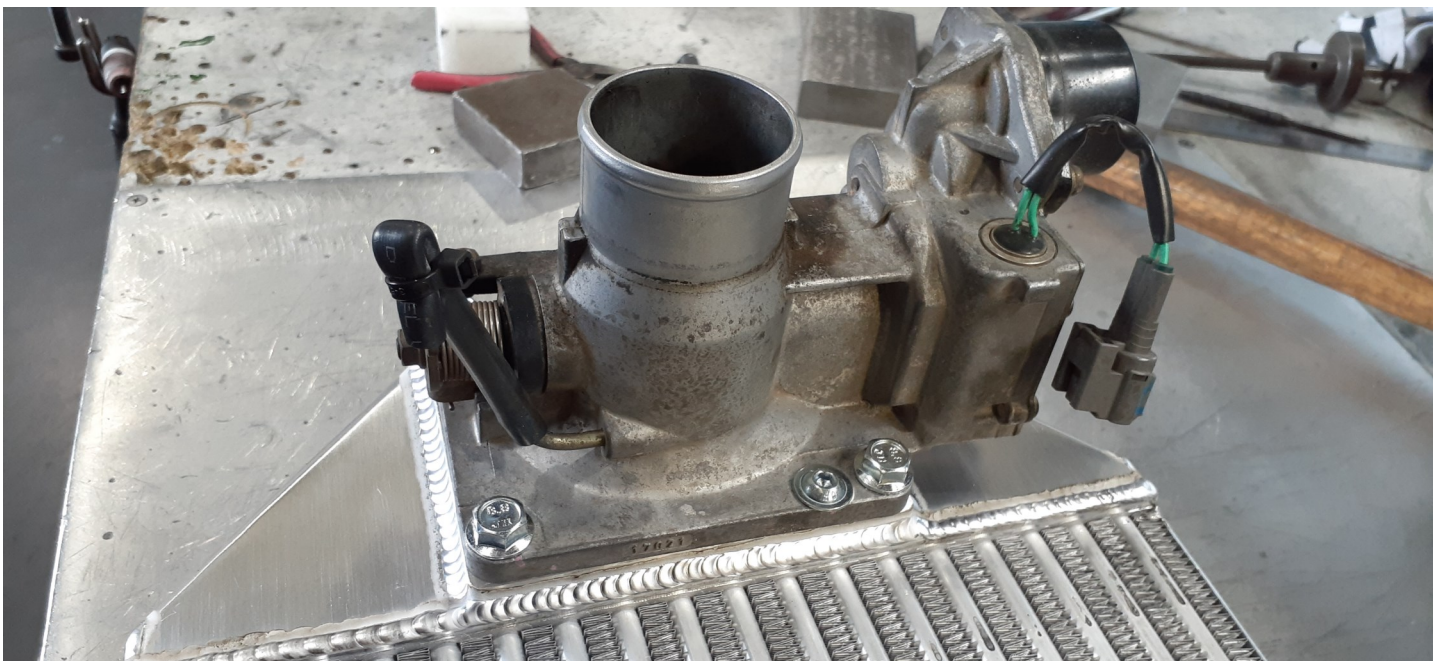
ON MODELS WITH A VACUUM OPERATED THROTTLE BODY A VAC LINE (SUPPLIED) WILL NEED TO BE RAN FROM THE VAC PUMP TO THE BLUE SOLENOID ON THE THROTTLE BODY.



ASSEMBLE PIPEWORK TO INLET ADAPTOR AS SHOWN. INSTALLING THE LONG END (125MM) OF THE SILICON TO THE INLET ADAPTOR.



ATTACH THROTTLE BODY TO INTERCOOLER USING SUPPLIED M8X16 BOLTS AND SILICON SEALER. ELECTRONIC THROTTLE BODY FACE MOTOR TOWARDS FRONT OF CAR. VACUUM FACE ACTUATOR TO DRIVERS SIDE OF CAR.





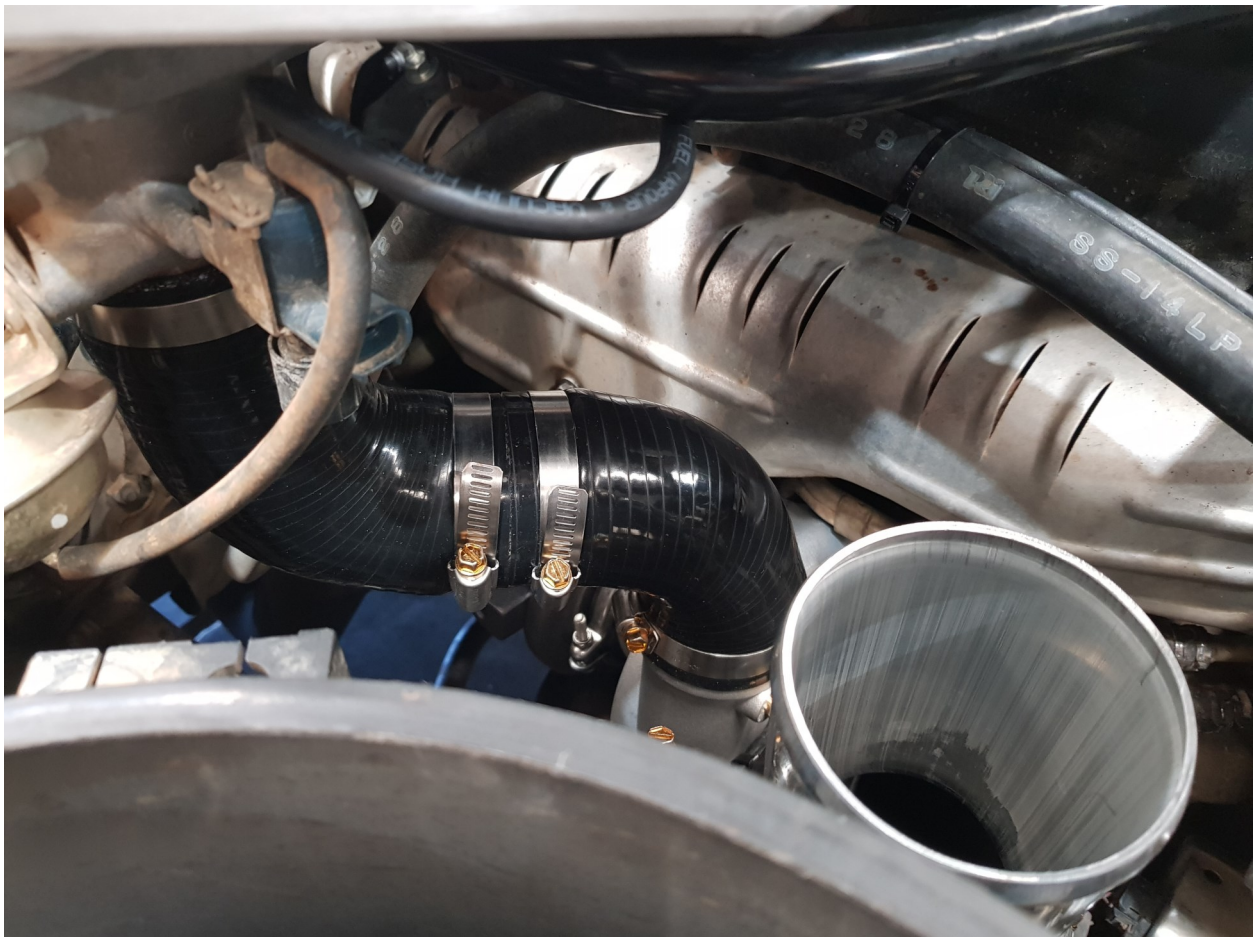


PLACE INTERCOOLER ON THE VEHICLE AND BOLT REAR OF COOLER TO FIREWALL AS SHOWN USING SUPPLIED BOLTS. THERE IS ADJUSTMENT IN THE REAR TAGS. MAKE SURE THERE IS CLEARANCE TO THE AIRBOX BEFORE FINALISING MOUNTING BOLT LOCATIONS.

MARK THE FRONT HOLES AND MARK THE BONNET BY PLACING THE 4 FOAM SQUARES STICKY SIDE UP ON THE OUTSIDE EDGES OF THE INTERCOOLER. SEE BELOW PICTURES. ONCE THE BONNET IS MARKED REMOVE THE INTERCOOLER FROM CAR.

WITH THE INTERCOOLER REMOVED DRILL THE FRONT MOUNTING HOLES AND RE INSTALL THE INTERCOOLER.

INSTALL SILICONES AS SHOWN. THE TURBO SIDE WILL NEED TO BE TRIMMED TO FIT.



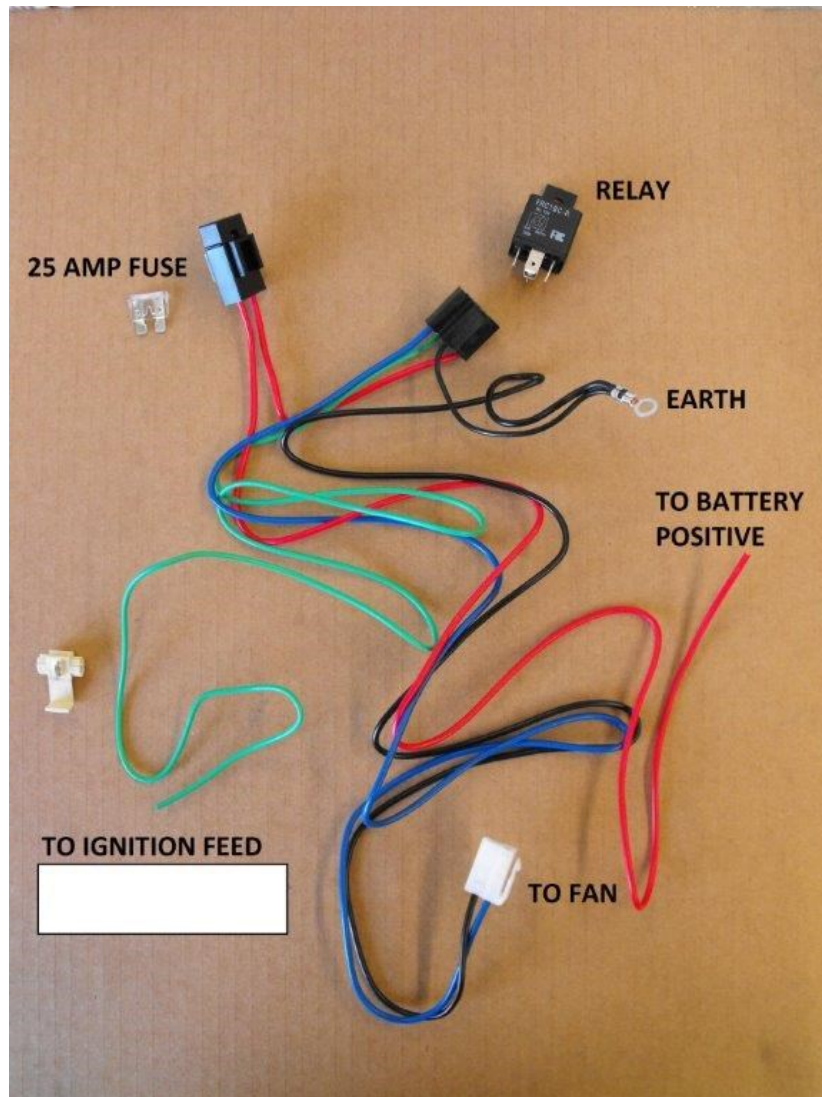


Place one square piece of foam supplied on all four corners of the intercooler and carefully close bonnet until all pieces have stuck to the underside of the bonnet



THE FAN CAN BE WIRED USING THE WIPER MOTOR AS A SOURCE FOR IGNITION.

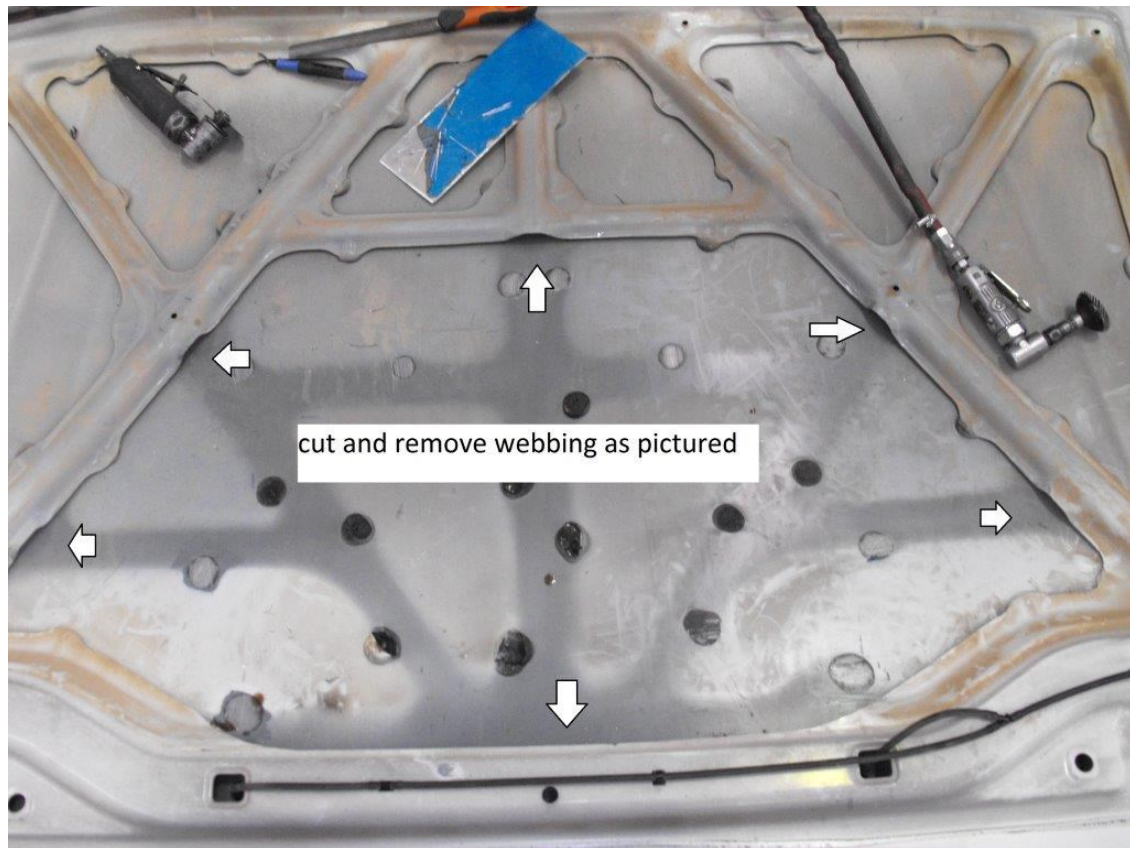
WIRE FAN AS BELOW

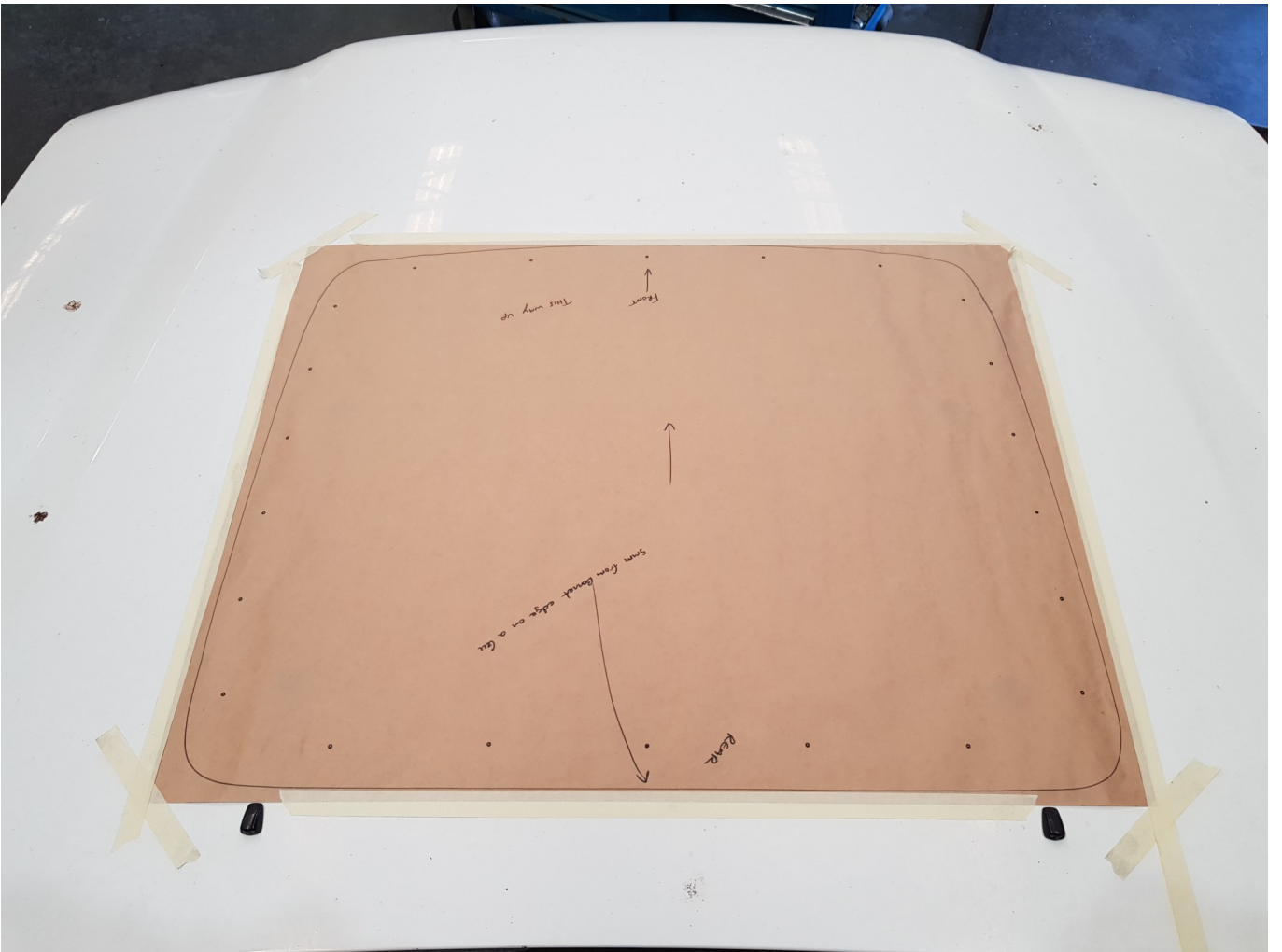


WITH THE BONNET REMOVED FOLLOW THE INTRUCTIONS SUPPLIED WITH THE SCOOP. ON THE 100 SERIES LANDCRUSIER WE RECOMMED PLACING THE SCOOP JUST INFRONT OF THE WASHER JETS.

CUT THE WEBBING OUT AS SHOWN.

ONCE THE BONNET IS PAINTED INSTALL THE SUPPLIED PINCH WELD





WITH THE SCOOP INSTALLED REFIT BONNET TO THE CAR



WITH THE INTERCOOLER INSTALLED TEST DRIVE THE VEHICLE AND CHECK THE FAN OPERATION.

AFTER A FEW DAYS OF DRIVING CHECK TENSION OF THE HOSE CLAMPS AND CHECK HOSE CLAMPS AT REGULAR SERVICE INTERVALS.