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# FORD RANGER PX 2015- FRONT MOUNT INTERCOOLER UPGRADE FITTING INSTRUCTIONS



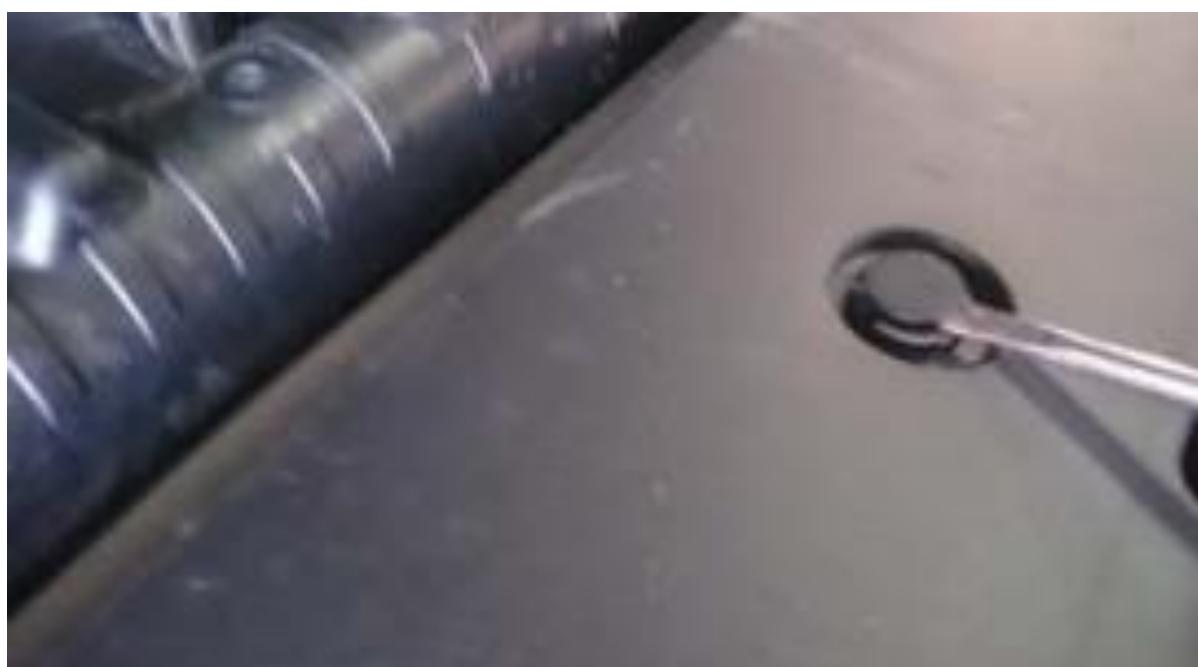
## **WARNING**

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

If the vehicle is fitted with a bull bar it is normally possible to install the intercooler without removing the bar. If the vehicle still has the factory bar it will need to be removed.

Start by removing the engine cover and top plastic trim between the grill and radiator support. A flat blade screwdriver works best. Followed by the grill.



For ease of access remove the airbox lid and pipe to turbo.

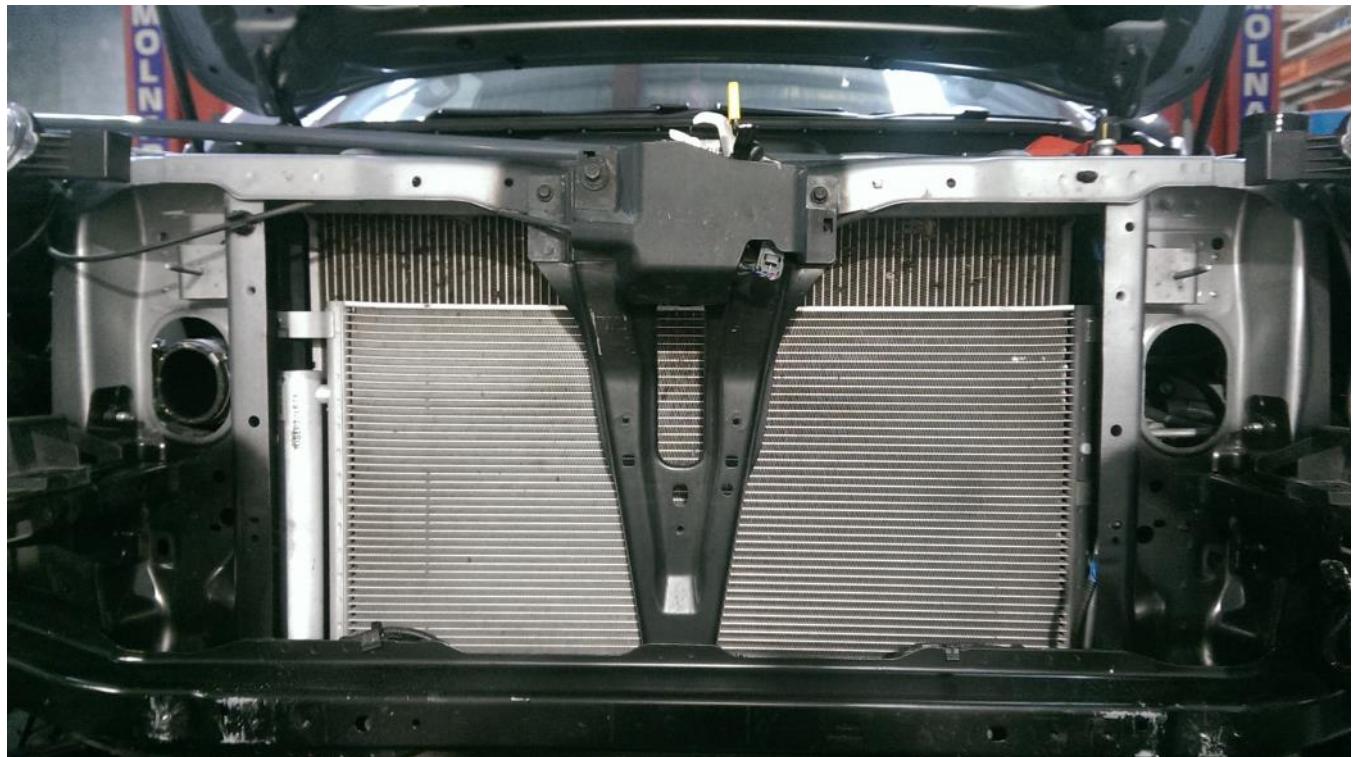
Remove the factory intercooler hoses from the intake (passenger) side.

Loosen hose clamp connecting turbo pipe to intercooler. Leave in place.

Remove mounting bolts for the intercooler.

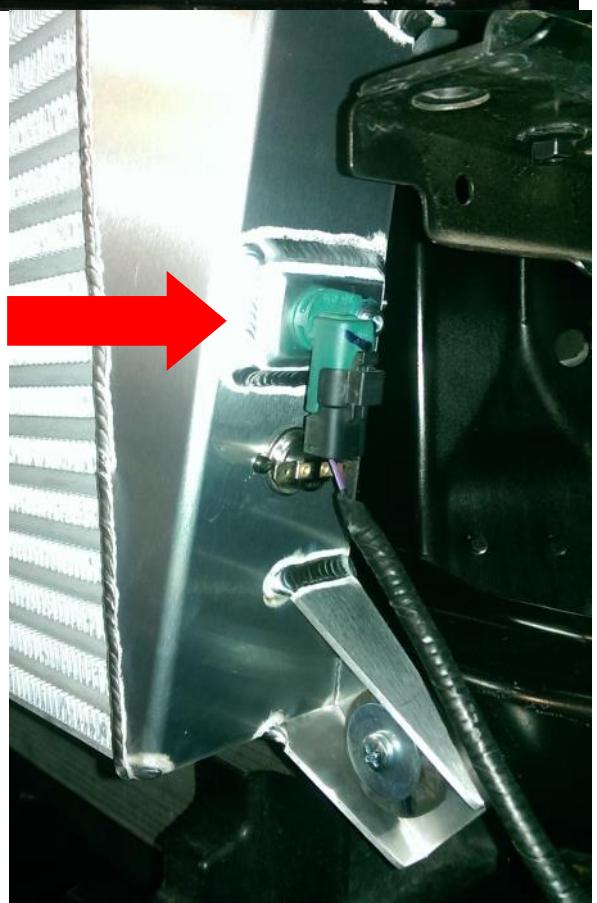
Disconnect temperature sensor and remove intercooler.

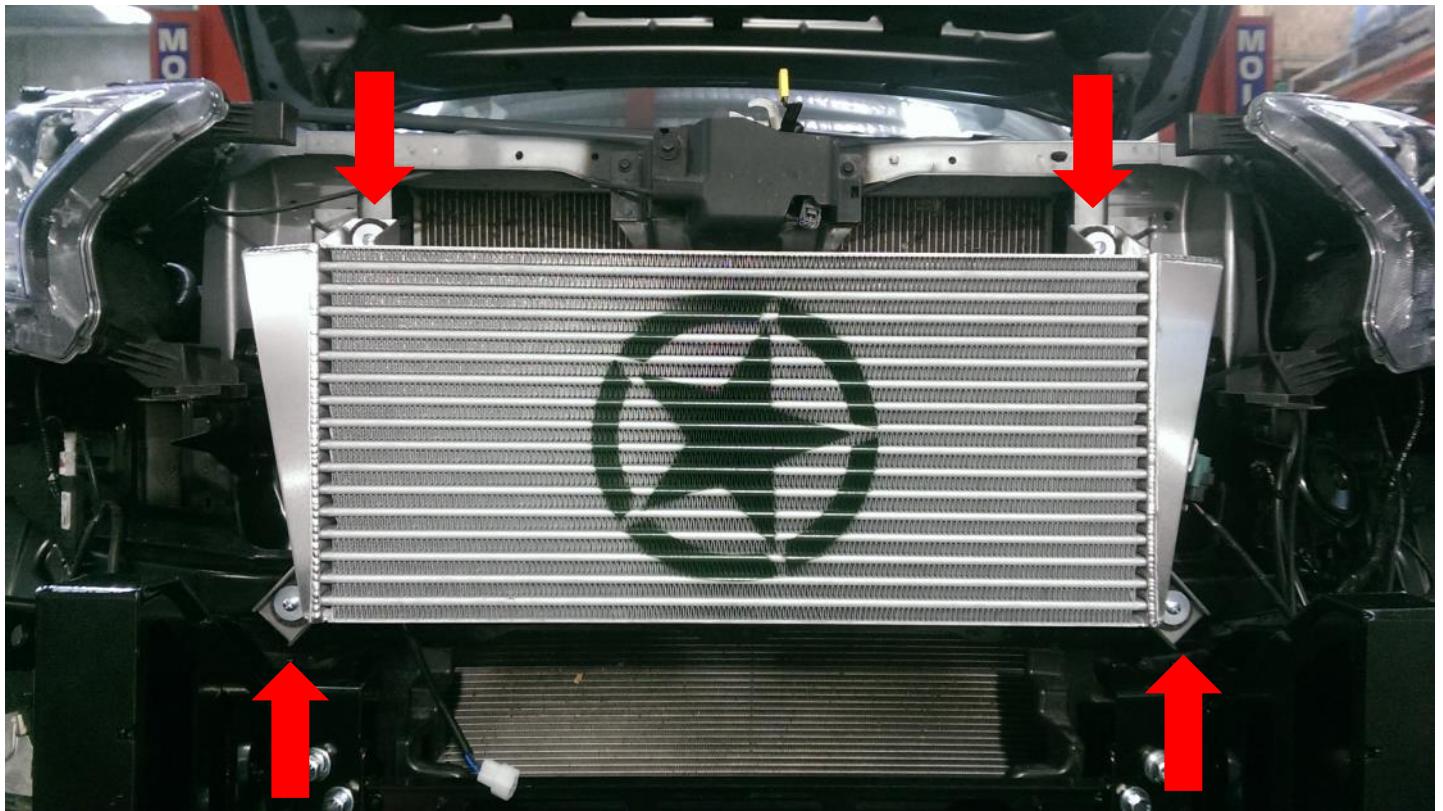
Clean the end of the turbo pipe previously connected to intercooler and intake manifold inlet with brake cleaner or similar so they are free of oil.



Remove temperature prob from the factory intercooler and install to the new intercooler using the m6x10 allen head bolt supplied.

Remove the 4 factory rubbers and crush tubes and install onto the new intercooler.





Remove the headlight supports and trim like shown on both sides allowing clearance for the intercooler.

Install the intercooler using the 4 m6x50 bolts and 4x large m6 washers.

Check clearance of headlight supports to intercooler. Trim if required and paint bare metal.

Connect temperature probe wiring and re install headlight supports.

If applicable trim and reinstall plastic duct pieces.

Connect turbo side pipe to intercooler. Tighten hose clamp

Install the 2 1/4" - 2 1/2" 90 degree reducer silicone to the intercooler followed by the 60 degree aluminium bend and finally the 2 1/2" 45 degree silicone to the intake manifold. tighten all hose clamps.



Check all fasteners and hose clamps are tight.

Reinstall front bumper, grill and plastic trims and airbox pipe

Test drive vehicle

After a week of driving re tension the hose clamps and check at regular service intervals.







