

FORD PUMA ST INTERCOOLER FITTING INSTRUCTIONS

Tools needed:

- Access to a vehicle ramp or a jack and axle stands
- Socket set
- Torx bits
- Trim tool
- Flat bladed screwdriver or pick
- Cross headed screwdriver

Kit Includes:

- AIRTEC Motorsport intercooler
- 4 x AIRTEC Motorsport brackets
- 2 X M6 X 20MM SOCKET HEAD BOLTS
- 2 X M6 PAN WASHERS
- 2 X M6 PENNY WASHERS
- 2 X M6 NYLOC

PLEASE THOROUGHLY READ THESE INSTRUCTIONS AND MAKE SURE YOU ARE FAMILIAR WITH THE STEPS BEFORE CARRYING THEM OUT



Instructions

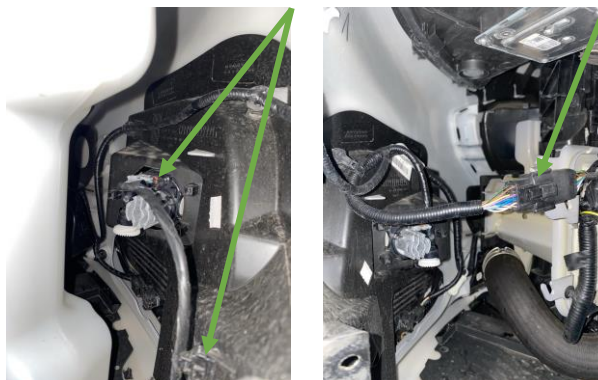
1. Open the bonnet and secure. Raise the vehicle using the locations identified by the manufacturer in the vehicles handbook.
2. Working under the vehicle the first step is to remove the 6 x plastic trim clips holding the bumper to the plastic tray underneath.



3. The next step is to pull back the front of the arch liners to gain access to the inside of the bumper. You will need to remove the 3 x 10mm bolts along the bottom of each liner and remove 4 x crosshead trim clips by using a cross headed screwdriver to turn them a quarter of a turn and then pull the whole clip out. Once you have removed the clips and bolts then pull the arch liner back and tuck it behind the wheel.



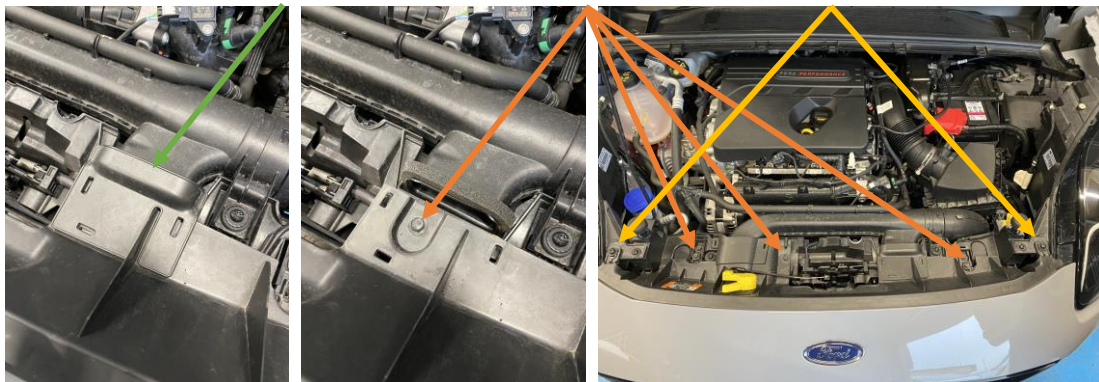
4. With the arch liner out of the way you will be able to disconnect the wiring harness each side. The left hand side when looking from the front of the vehicle connects to the lamp in the bumper and also has a clip holding the loom to the front bumper that you will need to remove and the right hand side is a bigger connector.



5. The next step is to pull back the outer arches to allow the bumper to be removed. Be very careful here as you do not want put too much stress into the outer arch as it could damage the paint or the arch itself. Work from the very bottom corner and slowly pull away and work your way round until you have enough access to get to where the bumper meets the wing. We recommend carefully removing the black clip highlighted below and placing in the slot in the outer arch so that when you reinstall it later on that the fitment is secure.



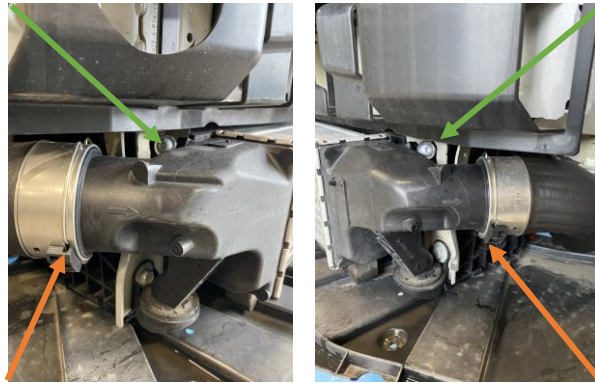
6. Working under the bonnet remove the plastic panel on the right hand side by pulling at the back of it to reveal a 10mm bolt below it. Remove this fitting along with 3 others and 2 x T27 torx fittings. You will then need to unhook the bonnet cable and carefully remove the clip holding the cable to the bonnet latch.



7. With a second person where the bumper meets the arch there is a small clip that will need to be pressed down to release the corner of the bumper. With this released you will be able to pull the edge of the bumper away to release it from the car and then remove the whole bumper. Put aside safely.



- Unclip the connectors from the intercooler. You will need to pull the clip up on both sides and then wiggle the connector back to release.



- Undo the 2 x T27 torx bolts (green arrows on the picture above) and then tilt the top of the intercooler forward and remove.
- Remove the plastic cover over the crash bar by unhooking it from the top and pulling it away. This is not reused.



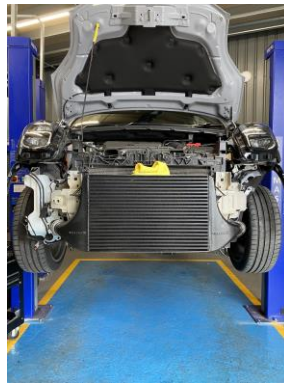
- The upper surround needs to be removed, to do this you will need to unhook the air temp sensor using a trim tool and then remove the two cross head trim clips by undoing them and then using a trim tool to remove. There are clips holding the bottom of it to the top of the crash bar, starting at one end push down on the clips whilst pulling at the surround to remove. Put aside, this is not reused.



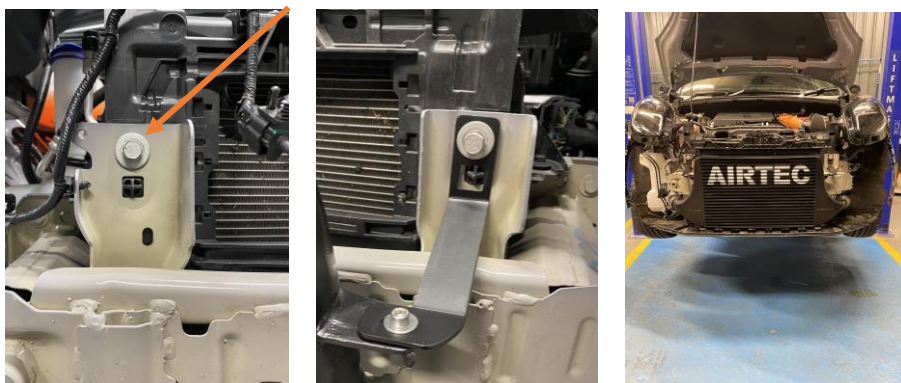
12. Remove the lower bracket by undoing the 13mm, remove the rubber and install the two new brackets, the longer of the two brackets on the right hand side of the car when looking at it from the front. Once the brackets are tight reinstall the rubber inserts.



13. Using a second person to help install the intercooler by slotting the pins into the rubber inserts and then standing the intercooler up. Clip the hoses back on to the connectors making sure the clip goes down into the groove on the connector and is secure.



14. Undo the 13mm bolt on each side at the top of the crash bar bracket and install the top intercooler brackets to the car. The shorter of the two brackets goes on the right hand side when looking at the car from the front. Install the M6 x 20mm socket head bolt with penny washer through the bracket and hole in the intercooler and install the second penny washer and nyloc underneath.



15. The temperature sensor can be relocated to a hole on the top of the crash bar bracket and the wiring harness clip relocated.



16. Reinstall the bumper, outer arches and arch liners in the reverse of removal.

