



MINI COUNTRYMAN FMIC INSTALLATION



Tools needed.

T25 screwdriver/bit
8mm socket, suitable extension and ratchet
13mm socket, suitable extension and ratchet
13mm spanner
Flat bladed screwdriver
2mm wide pin punch
7mm clamp drive
7mm drill bit and drill
Stanly knife

Kit list.

Intercooler
3 x M6 x 16 bolts
2 x M6 penny washers
4 x M6 plain washers
3 x M6 nyloc nuts

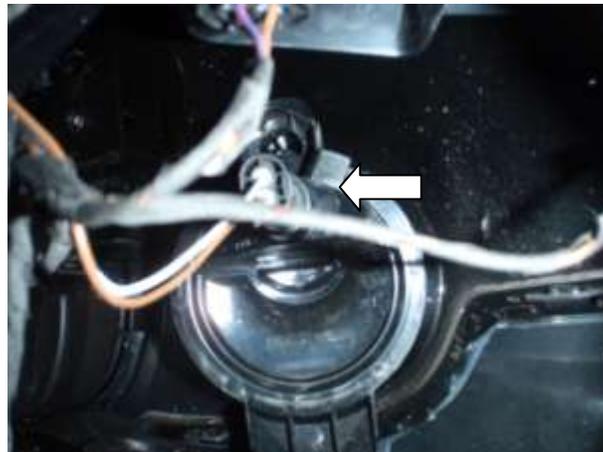
Upper inner arch



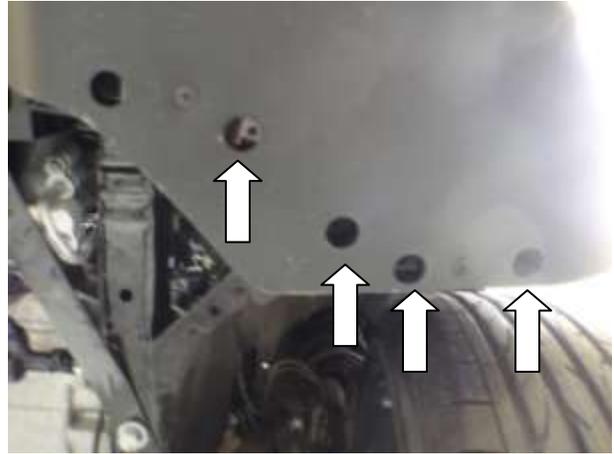
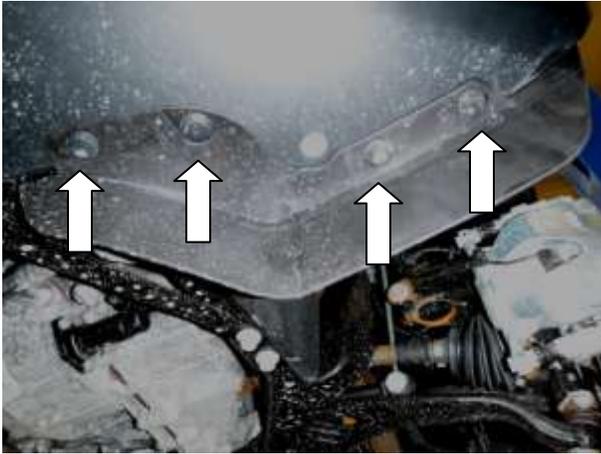
Lower inner arch



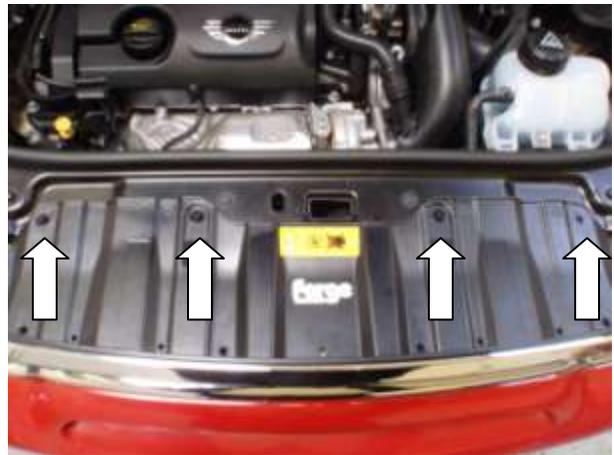
1. Park vehicle securely, jack the front of car and support on axle stands so that the front wheels are clear of the ground and raise bonnet. Starting on the driver's side turn steering wheel so the wheels are on full lock to gain access to the arch liner. Undo the 8mm screw, push out the pins from the three pin clips above using 2mm pin punch, then pull out the center of push clip using the flat bladed screw driver. Repeat this on the passenger side.



2. Remove the access panel and unclip the connection on the fog light. Repeat this on the passenger side.



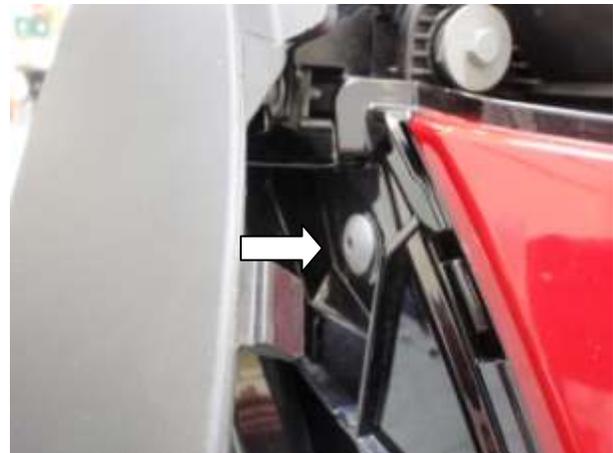
3. Under the bumper there are two small mud flaps. Pull out the centers of four push in clips using the flat bladed screw driver then completely remove. Repeat on both sides. Once the mud flaps have been removed you will be able to see four 8mm screws. Remove on both sides.



4. On the bottom of the bumper there are three more push in clips pull out the centers using the flat bladed screw driver then completely remove. Moving to the top of the bumper there are four 8mm screws holding the grill in position undo and remove these.



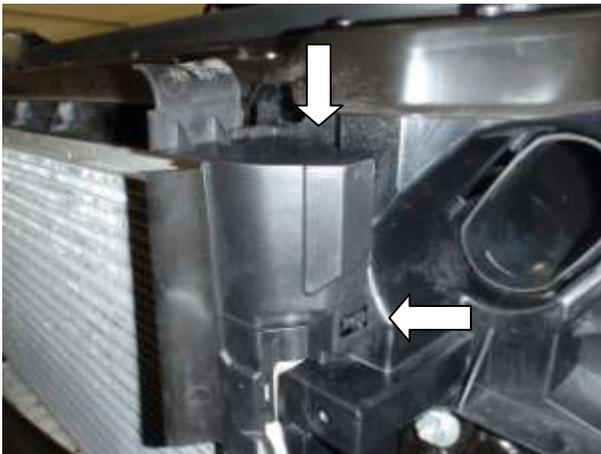
5. Pull the grill away from the bumper where indicated with arrows, you may need to apply some force so take care not to crack the grill or bumper. You now need to pull out the three clips holding the arch in position. From behind the bumper pull the clips towards the back of the car and push out.



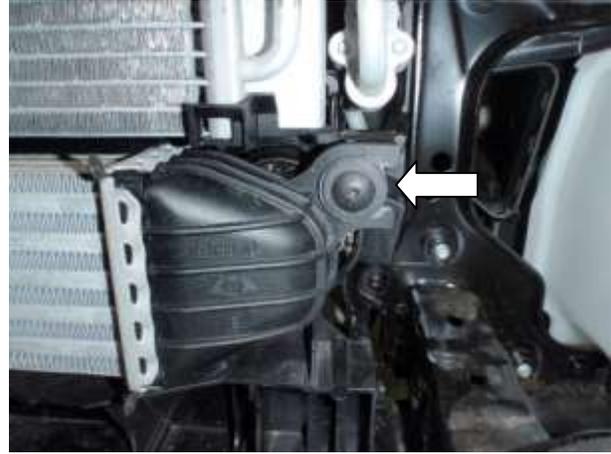
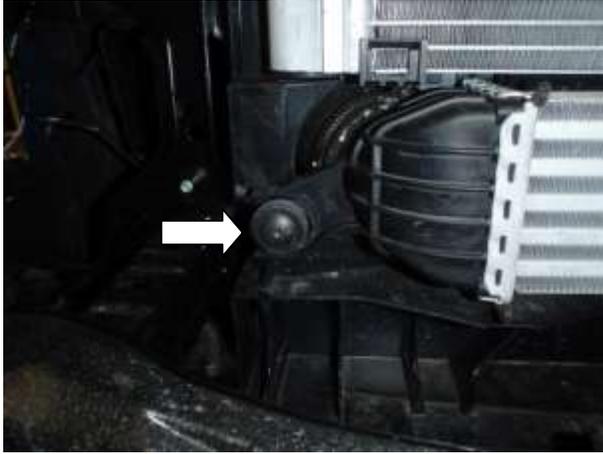
6. The arch also has a small clip located in the inner wing. From behind the wing, squeeze the clip together and pull arch outwards to release the top part of the arch. This gains access to the T25 screw holding the bumper to the radiator pack. Undo and repeat on the other side.



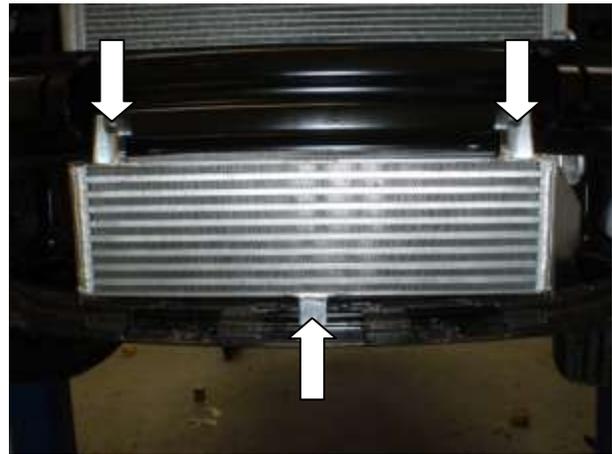
7. Remove the two T25 screws as indicated above and the bumper is now free to remove.



8. There are two plastic ducts which need to be removed to gain access to the stock intercooler. At the top of the ducting push the clip on the side inwards, and push the ducting down and out. To release the bottom, lift the ducting up and out to release the bottom clips.

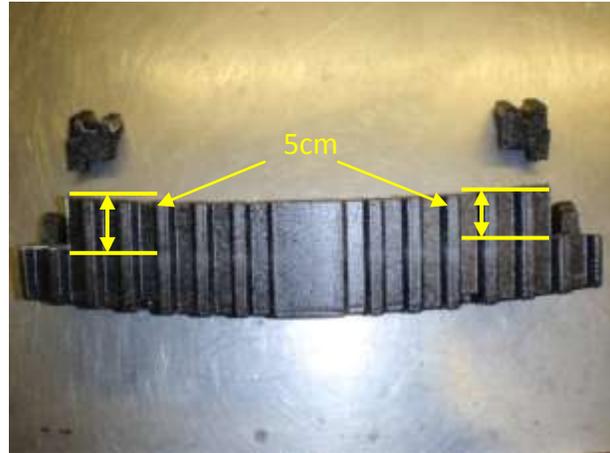
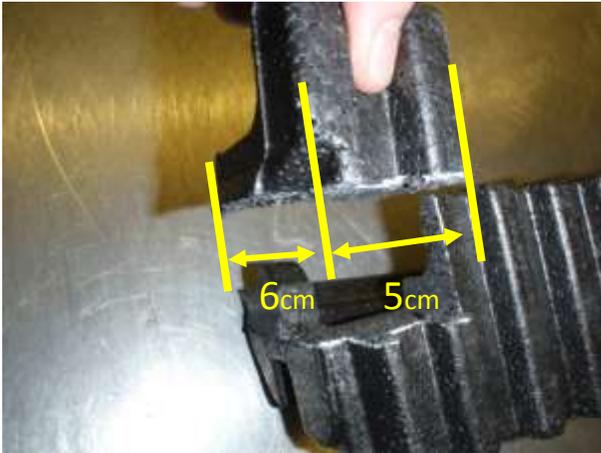


9. Undo the T25 screws holding the intercooler in place, undo the jubilee clamps and remove the intercooler.



10. To install the new intercooler remove the foam cover on the upper crash bar, and push the hoses on to the pipes exiting the intercooler. Rest the intercooler on the bottom crash bar and move the intercooler into the middle making sure the pipes are not touching the radiator pack. Mark through the three brackets, then remove the intercooler and drill out the three holes. Install intercooler as before but this time push the air temperature sensor into the bracket as shown below tighten the hoses onto the intercooler and then using bolts supplied bolt the intercooler in position.





11. Cut away the two bottom corners of the foam part of the crash bar as shown above and push back on as shown below.



12. Installation is now complete! Refit bumper following steps 1-7 in reverse order, then lower the car to the ground and enjoy your new found performance.



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