



DIRENZA
PROVEN PERFORMANCE

Renault Megane RS250 MVT Intercooler Installation Guide

The Direnza Renault Megane 250 RS MVT is a high performance aftermarket intercooler offering increased cooling and performance over the stock intercooler. The extra capacity along with revolutionary MVT technology gives lower output temperatures which result in power gains and more consistent power.

DISCLAIMER

- Allow the vehicle to cool completely prior to installation.
- We recommend that the intercooler is installed by a professional.
- Direnza is not responsible for any vehicle damage or personal injury due to installation errors, misuse or removal of Direnza products.

TOOLS REQUIRED

- Trim Tool
- T25, T30 Driver
- Flathead Screwdriver
- Phillips Screwdriver
- Pick Set
- 8mm, 10mm, 18mm Sockets
- Socket Extension
- Jack, Jack stands/Ramp or lift

- 1x MVT Front Mount Intercooler
- 4x Hard Pipes
- 5x Silicone Joiners
- 2x Mounting Brackets
- 10x Jubilee Clamps
- 1x Sensor Support
- 5x Bolts
- 4x Nuts





1. Remove 7x 10mm bolts from the engine under tray.



2. Step 1 continued.



3. Remove 4x 10mm bolts from bumper under tray.



4. Remove 6x T20 torx from the top edge of the front bumper/slam panel.



5. Pull out air duct feed.



6. Under the wheel arch, remove 2x T20 torx, do this on both sides.



7. Remove 3x push clips under the wheel arch, repeat on both sides.



8. Pull back the arch liner.



9. Remove 3x 10mm screws under the liner and 1x T25, do this on both sides.



10. Remove the washer jet by pulling out the mechanism and rolling off plastic cover.



11. Remove 2x 10mm bolts and lift metal clip securing the headlight.



12. Step 11 continued.



13. Lift and remove headlight, remembering to unplug all connections.



14. Step 13 continued.



15. Unclip the front bumper from each side.



16. Lift and pull the bumper to release.



17. Unplug the wiring harness located on the passenger side of the vehicle (RHD drive models).



18. Unplug washer jet pump and move bumper to a safe place.



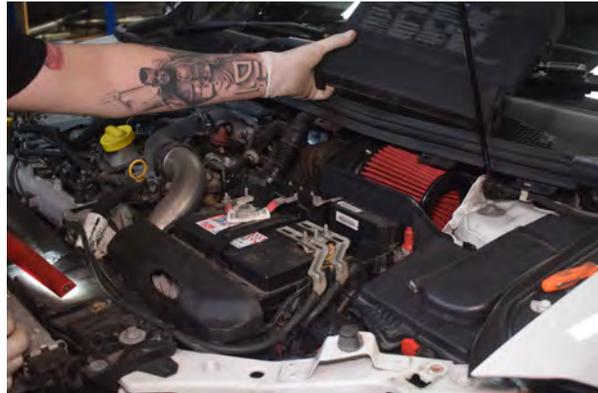
19. Remove 3x 10mm screws from the headlight holder.



20. Step 19 continued.



21. Remove the headlight holder.



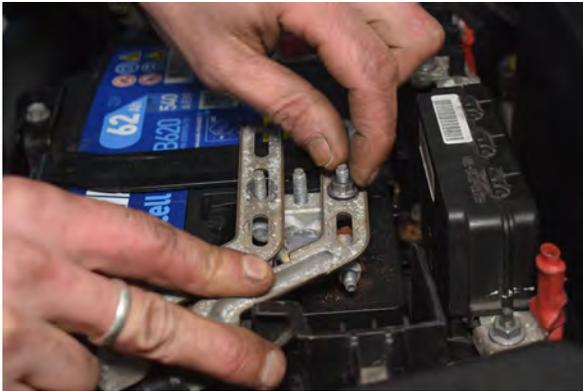
22. Remove battery cover for access.



23. Remove fuse cover.



24. You can remove battery and tray for better access but this isn't essential. To remove, follow the next steps. If not skip to No. 35



25. Disconnect 2x earths.



26. Disconnect positive terminal.



27. Remove 2x 8mm bolts securing battery holder bracket.



28. Remove the battery.



29. Remove 2x 10mm bolts and battery terminal.



30. Remove 2x 10mm bolts on the cover and remove.



31. Undo 2x 10mm bolts securing the ECU.



32. Remove ECU and place safely out of the way.



33. Undo 3x 13 bolts holding the battery tray to the car.



34. Step 33 continued.



35. Remove 10mm bolt from the cold side boost pipe support bracket.



36. Undo the clip on the cold side boost pipe, releasing the intercooler.



37. Use a screwdriver release the intercooler from mounting point.



38. Remove the hot side boost pipe clip.



39. Undo pressure sensor plug.



40. Unplug the MAF.



41. Undo the 10mm bolt on the top boost pipe bracket.



42. Remove 2nd 10mm on the boost pipe bracket.



43. The 3rd 10mm to remove is hidden under the boost pipe.



44. Undo the jubilee clip on the turbo pipe.



45. Remove pipe from the turbo.



46. Remove 3x 10mm bolts on the throttle body inlet pipe.



47. Pull away the intercooler from the boost pipes.



48. Step 47 continued.



49. You can now remove the hot side boost pipe.



50. Undo the jubilee securing the cold side boost pipe to the sound enhancer unit.



51. Pull away pipe from sound enhancer.



52. Undo 2x 13 bolts on the plastic slam panel.



53. Remove 2x plastic clips.



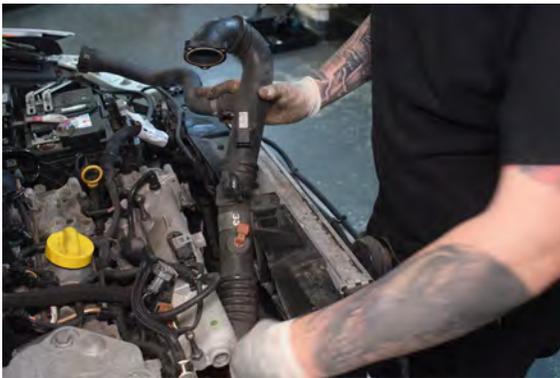
54. Use screwdriver to push clips holding the front cowling.



55. Remove the cowling.



56. Loosen 10mm bolts on the crash, providing access to the cold side boost pipe. You can also remove the crash bar if you wish.



57. Pull back the slam panel and remove the cold side boost pipe.



58. Use the original seal in the cold side boost pipe and transfer to the Direnza Hard pipe. This is a snug fit and requires some patience.



59. Step 58 continued.



60. You are now ready to install the cold side hard pipe.



61. Install the first section of the cold side hard pipe onto the throttle body.



62. Install 3x 10mm bolt securing the new Direnza hard pipe to the throttle body.



63. Fit 10mm bolt on the front upper support bracket.



64. Remove sensor from the OEM pipe.



65. Remove MAF using T20 torx.



66. Fit the temp sensor and supplied support bracket with supplied 10mm screw.



67. Fit the pressure sensor into the cold side hard pipe.



68. Secure sensor with supplied 10mm screw.



69. The next step requires the pictured hard pipe, 2x jubilee clips and straight narrow silicone.



70. Place the hard pipe into position.



71. Fit silicone joiner and secure with 2x jubilee clips.



72. Step 71 continued.



73. Secure 2nd support bracket with supplied 10mm bolt.



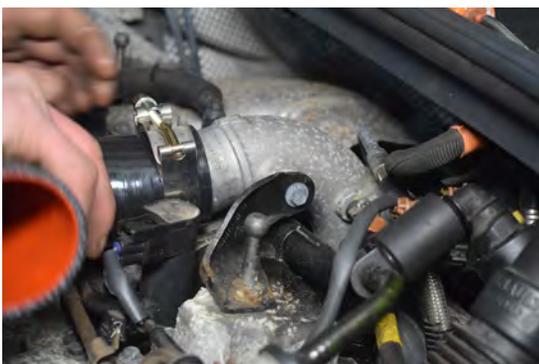
74. Secure radiator with 2x 13m bolts.



75. Also fix with 2x plastic clips.



76. You now need the smallest jubilee and smallest 90° silicone.



77. Place into position on the turbo outlet.



78. Step 77 continued.



79. Next, grab 4x jubilee clips and the remaining two hardpipes.



80. Place into position.



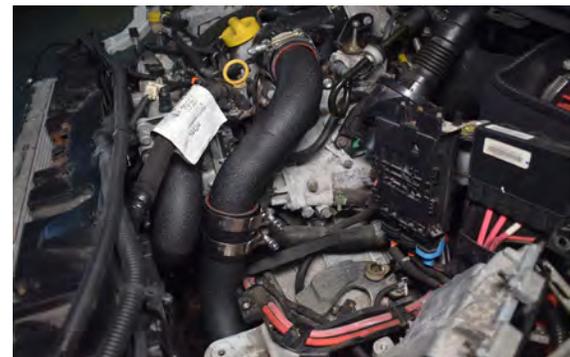
81. Secure with the original 10mm bolt.



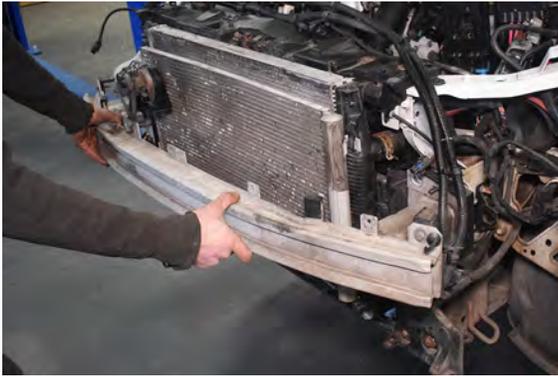
82. Feed the second hard pipe into position from the bottom upwards.



83. Slot the two pipes together with the silicone joiner and secure with 2x jubilee clips.



84. Step 83 continued.



85. You can now re-install the crash bar if you removed it earlier.



86. Secure using 6x 16mm bolts, (three per side).



87. Step 86 continued.



88. We can now install the intercooler brackets, nuts and bolts from the MVT kit.



89. Secure the intercooler brackets into position on the lower of the two mounting holes with supplied nuts and bolts.



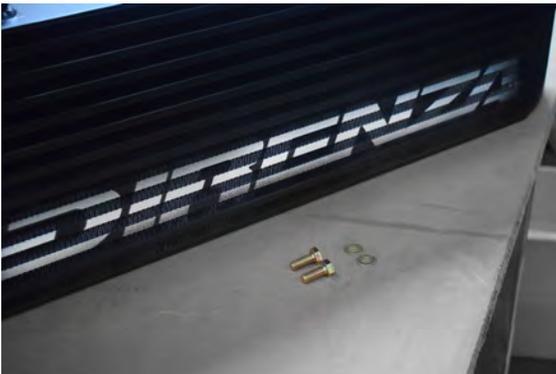
90. Step 89 continued.



91. Place the large 90° silicone and jubilee clip facing forward onto the end of the cold side hard pipe.



92. Secure the final silicone onto the end of the hot side hard pipe.



93. You can now get ready to install your MVT intercooler.



94. Place 2x clips onto the end of the hardpipes.



95. Place intercooler into position in the silicone joiners.



96. Step 95 continued.



97. Step 95 continued.



98. Secure the MVT intercooler to the support brackets with supplied bolts.



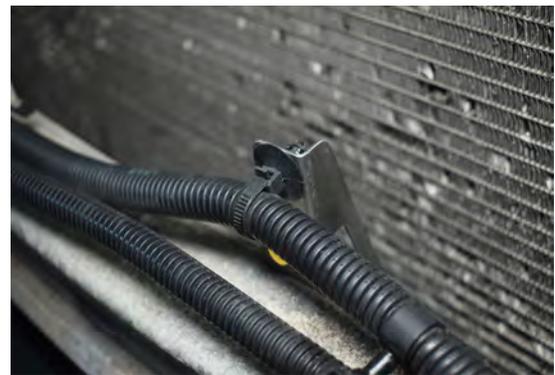
99. Step 98 continued.



100. You can now tighten all the 10mm bolts securing the intercooler and brackets.



101. You can now fully tighten and secure all other mounting brackets and jubilee clips.



102. Clip wiring loom into the crash bar and top hole of the intercooler support brackets.



103. Step 102 continued.



104. If you removed the battery earlier, it can now be placed back in position.



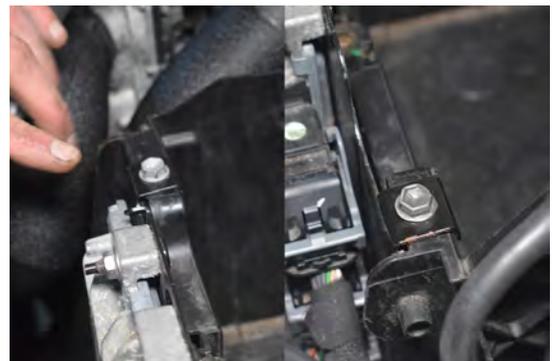
105. Re-install 3x 13mm bolts.



106. Step 105 continued.



107. Place ECU into position.



108. Secure the ECU with 2x 10mm bolts.



109. Locate fuse box pins /brackets on battery tray and secure with 2x 10mm bolts.



110. Fix with further 2x 10mm bolts ensuring battery terminal is attached.



111. Place the battery into the car.



112. Secure the battery with 2x 8mm bolts and battery bracket.



113. Connect positive terminal.



114. Connect 2x earths.



115. The side ducting requires a small amount of trimming to fit around the larger intercooler.



116. Install side ducting sections.



117. Install top ducting with clips.



118. Step 117 continued.



119. Install the headlight holder and secure with 3x 10mm bolts. Do this on both sides.



120. Step 119 continued.



121. Step 119 continued.



122. Re-install 2x headlight connections and place into position.



123. Insert headlight locking slider.



124. Fasten 2x 10mm headlight bolts.



125. Repeat this for the other headlight.



126. You can now begin re-fitting your front bumper remembering to re-connect the washer jet pump and wiring harness.



127. Push in the sides of the bumper once fitted in position.



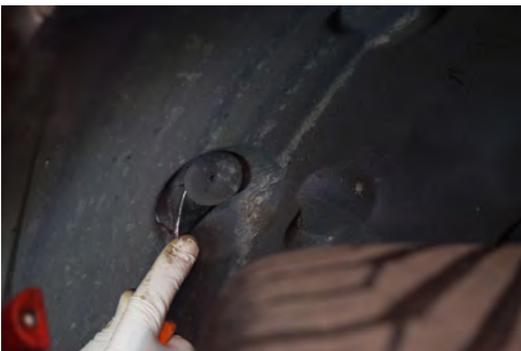
128. Install washer jet covers.



129. Install 3x 10mm screws under the liner and 1x T25 do this on both sides.



130. Put arch liner back in place.



131. Install 3x push clips under the wheel arch, repeat on both sides.



132. Under the wheel arch, install 2x T20 torx, do this on both sides.



133. Fit upper air duct feed.



134. Install 6x T20 torx from the top edge of the front bumper /slam panel.



135. Install 4x 10mm bolts from bumper under tray.

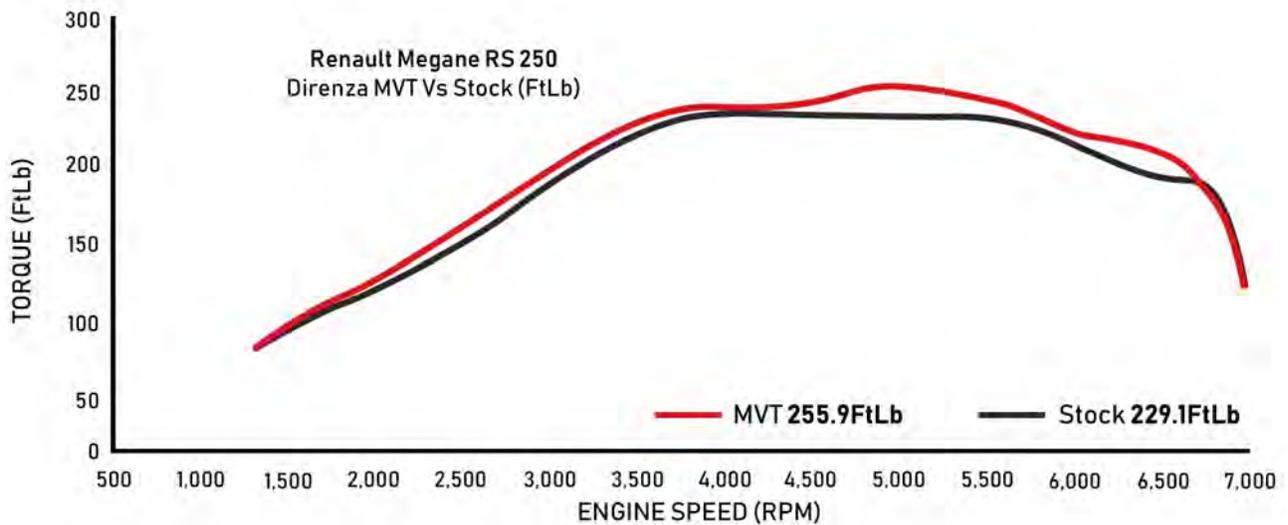
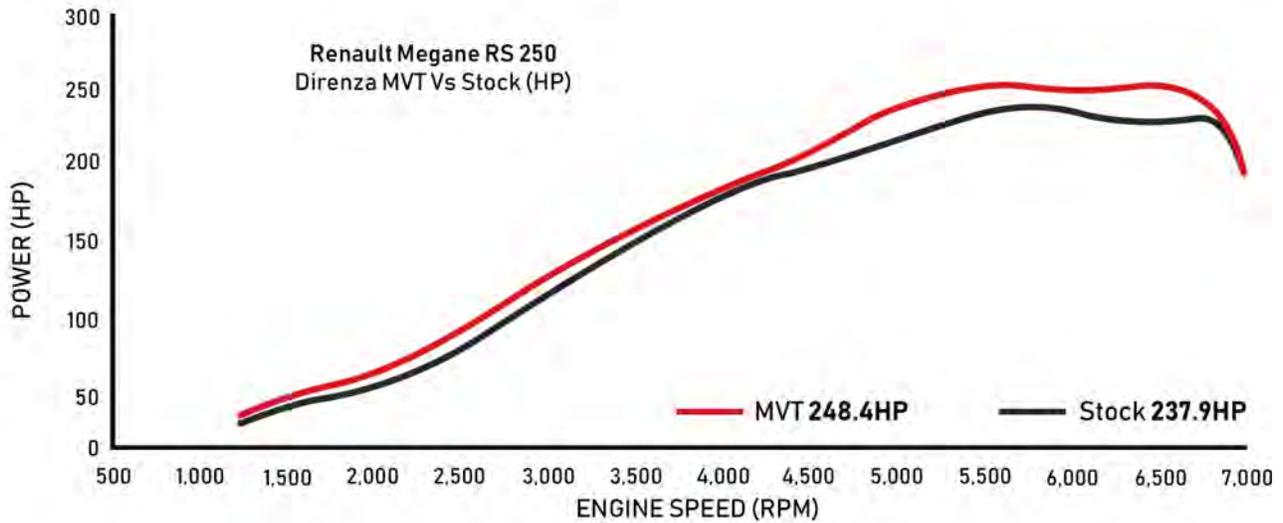


136. Install 7x 10mm bolts from the engine under tray.



137. Your new MVT intercooler is now installed, enjoy!

Vehicle info: MY2010 Renault Megane RS250



Without any further modifications or engine mapping our Renault Megane RS250 test car achieved 248.4Hp on the dyno, a 6.5hp increase over standard. With a torque reading of 255.9FtLb an increase of 26.8FtLbs over the OEM setup.

You may also like...



Renault Megane MK3 RS250
Exhaust Manifold.



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