Challenger VT installation instructions



VT twin screw booster

Dodge challengre 3.6VT Superchargers





1. Check whether the engine is running normally, and ensure that the engine is kept in the original state. 2. Protect the leaf plate and the middle net to avoid scraping



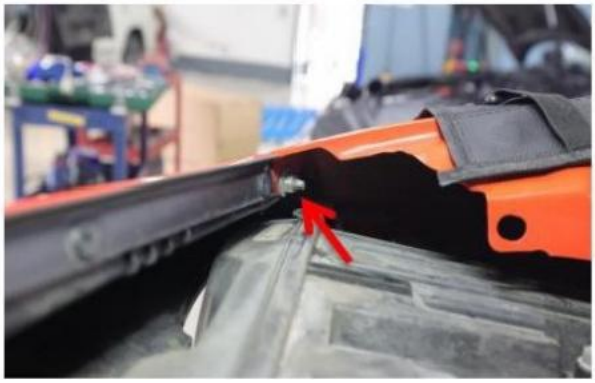


3. Remove the left and right decorative panels of the water tank frame5. Pry out the front bumper fixed card buckle





6. Pry out the leaf plate7. Remove the front bumper retaining screws





9. Remove the fixing screws under the front bumper and the engine guard plate

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10. Pull out the radar induction wiring harness plug



11. Remove the front bumper



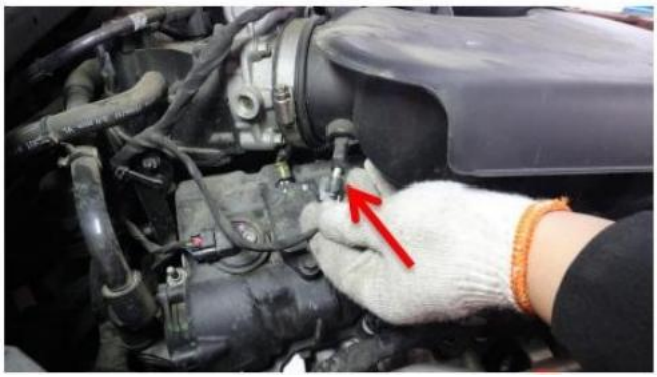
12. Lift engine trim panel up and remove



13. Release the fixing clamp of the bellows and the intake hose



14. Release the throttle and intake hose



15. Pull off the air inlet temperature sensor plug



16. Remove the air intake air hose



17. Pull out the throttle plug

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18. Remove the four throttle fixing screws (the screws are reserved for later use)



19. Remove the two intake manifold fixing screws



20. Pull out the carbon tube solenoid valve and the brake power vacuum tube



21. Pull off the air inlet pressure sensor plug



22. Remove the intake manifold fixing screw after the throttle valve



23. Remove the intake manifold fixing bracket



24. Remove the seven fixing screws of the intake manifold



25. Remove the intake manifold

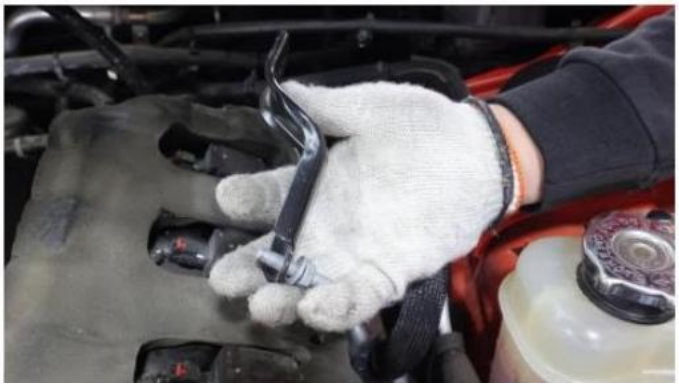
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26. Six air intakes are protected from foreign objects that damage the engine



27. Pout the harness clamp on the fixing bracket of the intake manifold



28. Remove the two fixing brackets



29. Remove the thermal insulation cotton above the valve chamber cover



30. Light pry the middle transfer buckle of the oil refueling port and take it out



31. Unscrew the oil cover and separate it from the middle transfer

32. Turn on the gas inlet



32. Turn on the gas inlet

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33. Unscrew the water tank



34. Release the antifreeze fluid



35. Disassemble the original vehicle thermostat base



36. Clip out the pipe clamp and remove the pipe



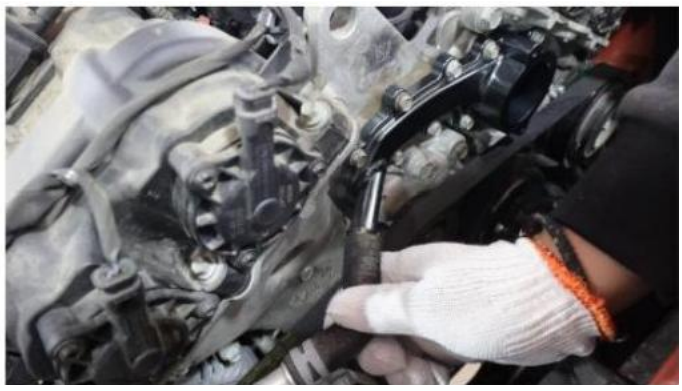
37. Remove the flange of the thermostat base



38. Remove the sealing ring from the original thermostat base to the replacement base



39. Install and replace the temperature-saving base of the original vehicle



40. Install the water pipe and clamp the clamp

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41. Pull the tensioner in the direction of the arrow



42. Take out the original car belt



43. Remove the ignition coil fixing screw



44. Check the spark plug, it is recommended to replace six new spark plugs directly (the spark plug quality is not less than the original car standard)



45. Remove the air inlet seal tape



46. Check the six cylinders for foreign bodies!!!



47. Take out the four short fixing screws of the original car intake manifold



48. Seven fixed screws four original car intake manifold fixing screws three are throttle fixing screws

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49. Rotate the arrow and remove the inlet pressure sensor



51. Install the two housing positioning pins





53. Install the two fixed brackets on the side of the supercharger



55. Schematic diagram of heat dissipation and water cooling core



50. Install the air intake pressure sensor



52. Install the supercharger two people gently shake the supercharger positioning pin card into the plastic bottom plate card slot



54. Support screws are evenly tightened one by one



56. Install the heat dissipation and water cooling core

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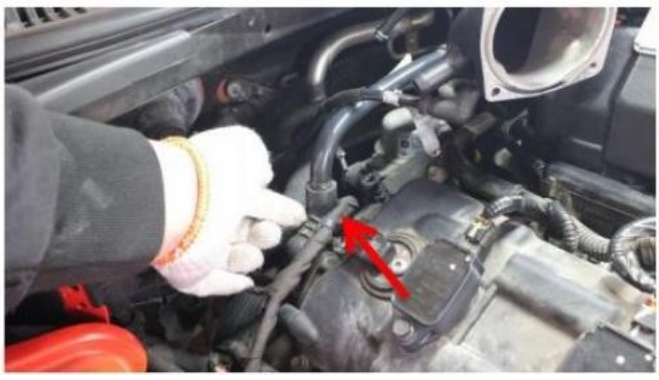
57 Install the carbon tube solenoid hose connector



59. Schematic diagram of the modified air intake pressure sensor



61. Remove the intake air temperature sensor in the direction of the arrow



63. Remove the exhaust gas pipe on the passenger side



58. Install the brake vacuum hose



60. Install the modified air intake pressure sensor



62 Install the air intake air temperature sensor



64. Schematic diagram of replacing the original vehicle exhaust gas pipe assembly



65. Install the exhaust gas pipe



66. Schematic diagram of the throttle components



67. Install the throttle sealing ring



68. Install the four fixed screws of the throttle door



69. Install the throttle plug



70. Install the modified air inlet pressure sensor (install the plug for the original vehicle air inlet pressure sensor)



71. Remove the idler and a fixing screw (not later
Keep good)



72. Remove the tank idler wheel

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73. Remove a fixing screw



74. Bring the extended belt around the hair plate according to the original car belt



75. Schematic of idler bracket (Install two idler wheels
And cushion cover)



76. Install the idler bracket (pass the belt between the two idlers)





77. Remove the two fixing screws shown by the arrow





78. Schematic diagram of the supercharger main fixing bracket79. Install the two original fixing screws

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80. Supercharger fixing bracket



81. Assemble the supercharger bracket



82. Support mounting position



83. Support screws are evenly tightened one by one



84. Schematic diagram of idler wheel (note the contact liner of slot inliner)



85. Install the slot idler wheel



86. Install the iron-light idler wheels

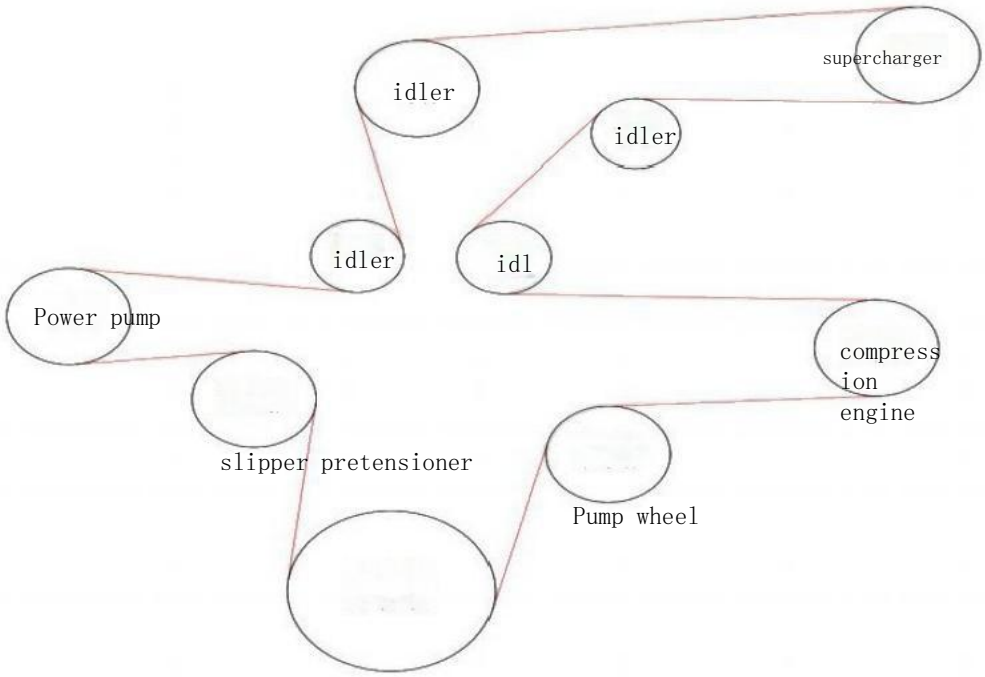


87. Tighten the idler wheel screws

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88. Pull the tensioner for installation belt



89. Belt direction diagram





91. Tighten the flange screws of the thermostat



92. Schematic diagram of the bellows to the throttle pipe



94. Schematic diagram of the kettle



96. Schematic diagram of the water pump support wire harness



98. Install the water pump wiring harness



93. Complete schematic diagram of the installation



95. Installation position of the kettle



97. Installation position of the water pump



99. Installation position of water pump line tie iron

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100. Schematic diagram of the water tank and the bracket



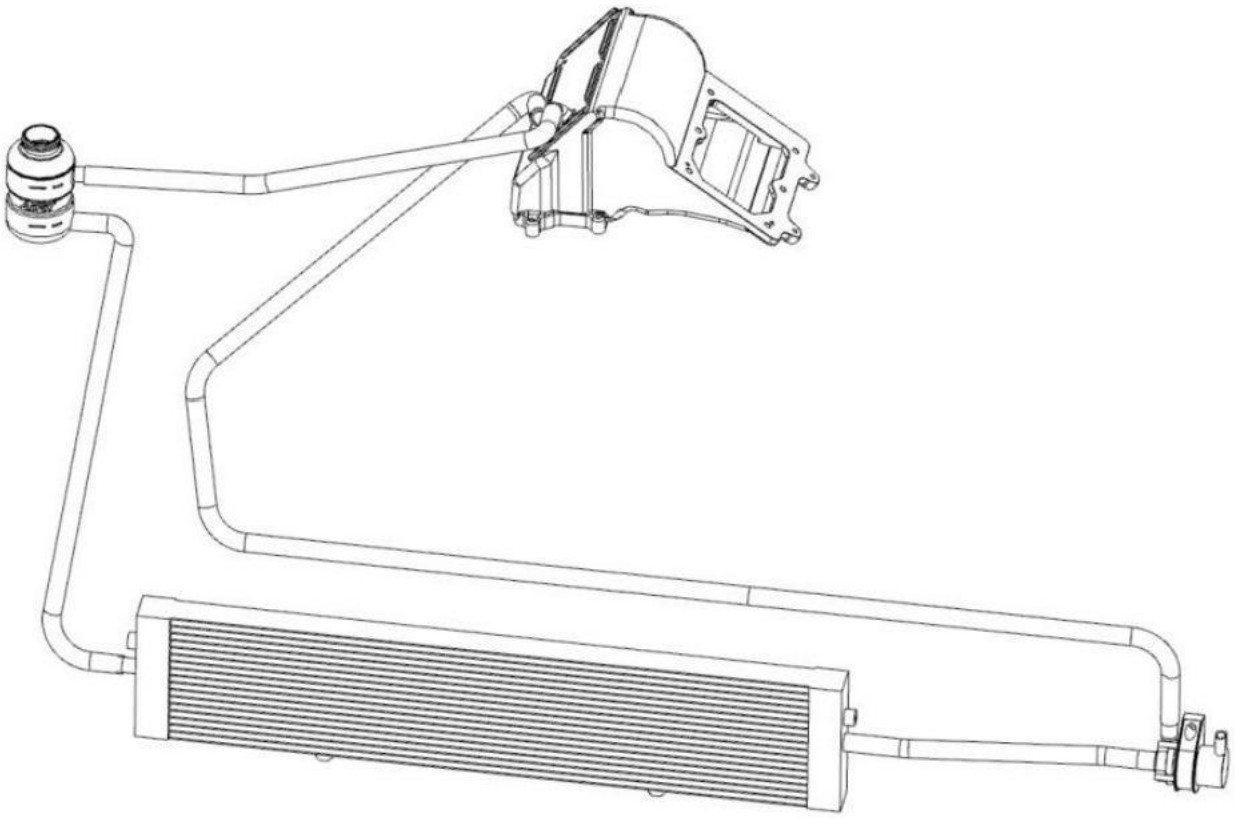
101. Install the water tank fixing bracket A



102. Install the water tank fixing bracket B



103. Use a 32mm punch pipe through the arrow







105. Install the water pump to take the wire



Installation completed

three.check up

1. Check all pipes for friction and collision after the installation
2. Check whether the antifreeze of the water tank and the supercharger belt are installed in place
3. Turn off the engine immediately after starting for 3-5 seconds, and check whether the belt installation is in place again
4. Check the oil leakage, and run in for about 30 minutes
5. It is recommended to use no. 95 and above gasoline, which has better engine protection and better power
6. After running-in, connect the turbine pressure gauge for road testing, and the turbine pressure should be controlled at 0.45bar. If the adjusted pressure exceeds 0.45bar, the company will not be responsible for it