VT Superchargers – Ford Explorer 3.5L VT Supercharger (No Tune)

Professional Installation Manual
Includes step-by-step instructions, images, safety tips, and maintenance notes.

Page 1:

The Explorer VT, installation instructions



VT twin screw booster

Page 2:

FORD 3.5 VT Superchargers



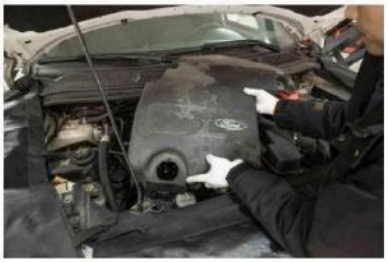
1. Check whether the engine is running normally, and ensure that the engine keeps in the original state to protect the leaf plate and the mesh to avoid scraping



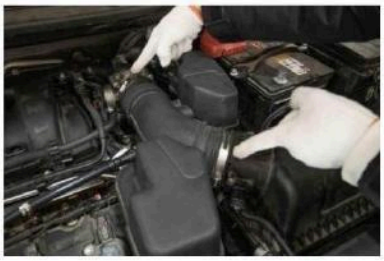
2. Release the battery negative electrode screw with a No. 10 wrench



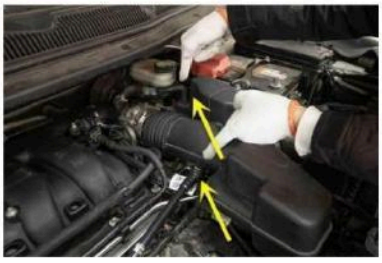
3. Use tools to disconnect the negative battery electrodes and pack them with insulated articles to prevent accidental contact



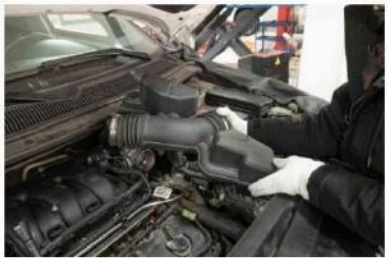
4. Remove the original engine cover with both hands (keep properly, these parts will not be reused)



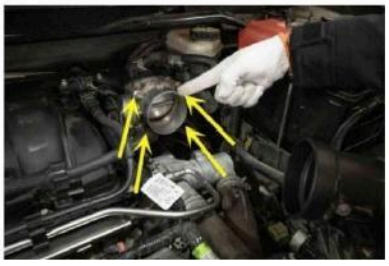
5. Remove the two clips on the intake pipe



6. Pull out the exhaust gas pipe on the inlet pipe and the brake check valve vacuum pipe



7. Remove the air intake tube



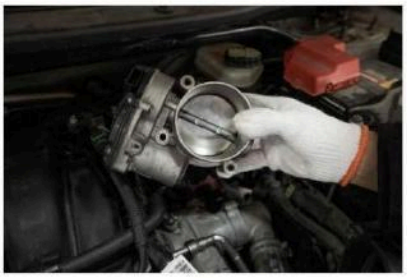
8. Remove the throttle door

Page 3:

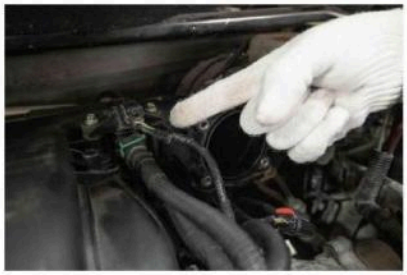
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9. Unplug the throttle plug



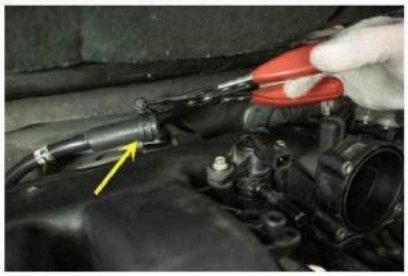
10. Take out the throttle door



11. Pull out the carbon tank solenoid valve plug



12. Remove the brake vacuum tube



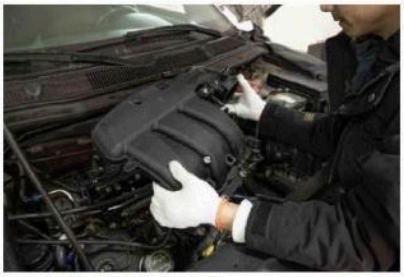
13. Remove the exhaust gas pipe hose



14. Remove the intake manifold fixing screws



15. Remove the seven fixing screws of the intake manifold



16. Remove the intake manifold

Page 4:

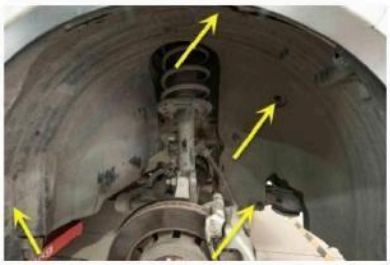
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17. Seal the air intake to avoid entering the debris



18. Remove the passenger side wheel hub



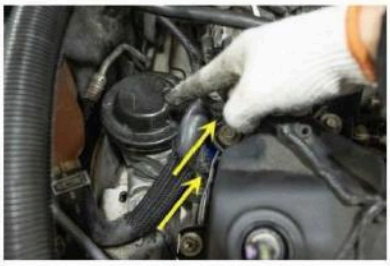
19. Remove the inner board buckle



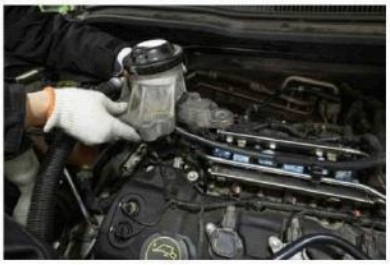
20. Remove the medial plate



21. Support the engine oil pan with the jack



22. Remove the passenger side engine claw (and remove close
Two claw screws on engine side)



23. Remove the engine paw



24. Remove the front bumper

Page 5:



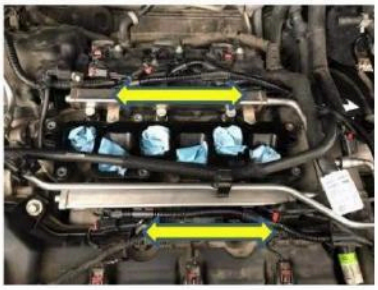
25. Install the external computer wiring harness



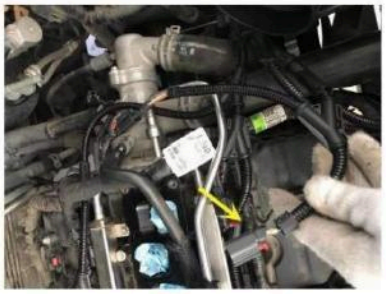
26. Pull out the six injection nozzle plugs



27. Install the fuel injection nozzle and connect with the plug



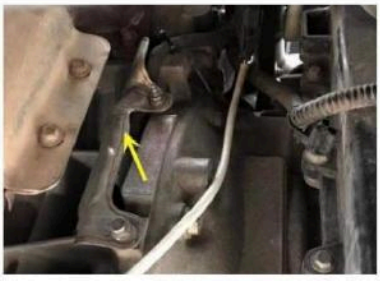
28. The fuel injection nozzle line is tied away



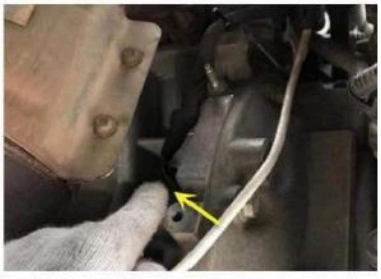
29. Throttle line



30. Install the air flowmeter and plug



31. Remove the crankshaft position sensor protection cover plate

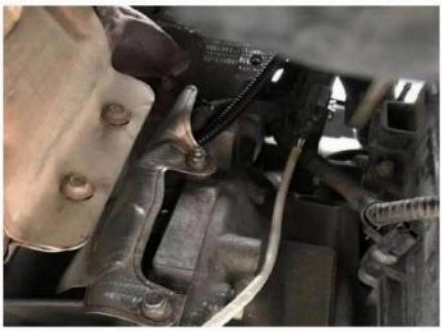


32. Crankshaft, and the position sensor

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33. Install the plug line (the crankshaft position sensor position is narrow, please operate patiently)



34. The installation of the harness harness is completed

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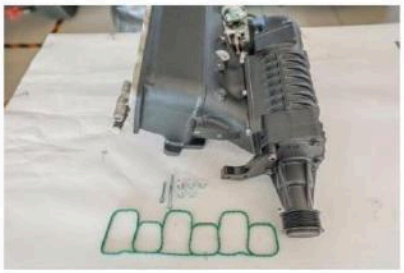
35. Install the main fixing bracket of the supercharger



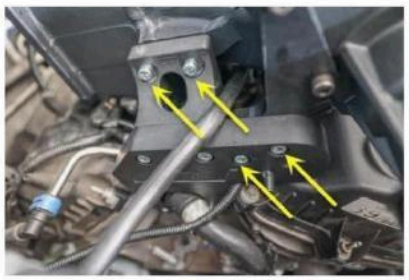
36. Install the four fixing screws for the main support



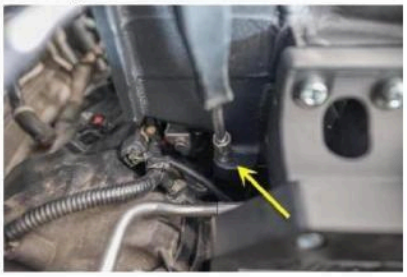
37. Install the supercharger and the main bracket linking the aluminum bracket



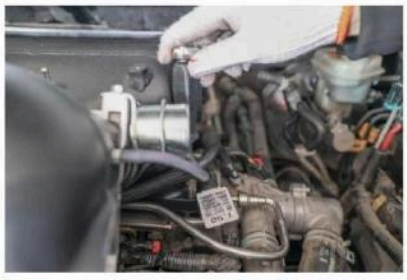
38. Install the supercharger (the original car intake seal ring is available)



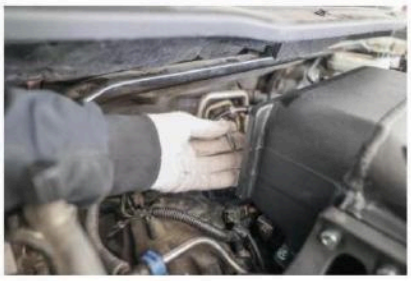
39. Fixed four screws on the supercharger support and housing (do not lock)



40. Install the intake flange fixing screw (the screw does not lock tightly)



41. Install the air intake flange fixing screws



42. Fixed the inner flange screw of the intake housing (the screw is hexagonal M6X40)

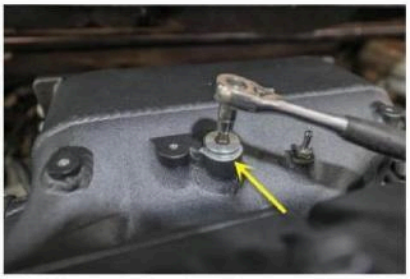
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43. The installation screw requires hand extension into the intake housing



44. Put the screw into the screw hole (the screw is M6X65)



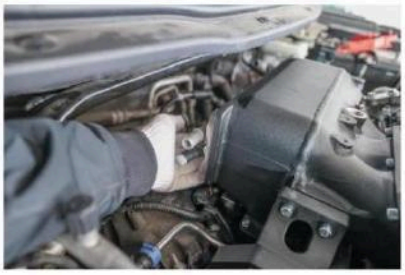
45. Supercharger flange screw evenly lock and install the inlet pipe plug screw



46. Schematic diagram of the water-cooled core and the gasket



47. Install the water cooling



48. Install ten water-cooled fixing screws



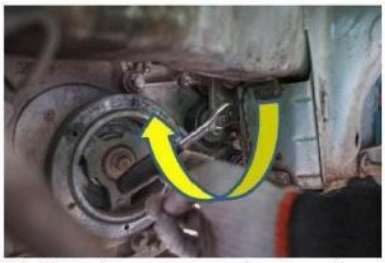
49. Throttle door and gaskets



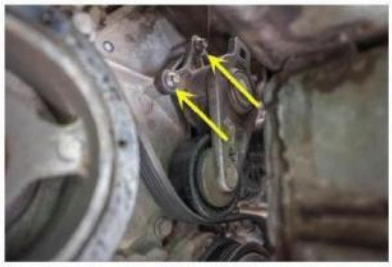
50. Install the throttle door

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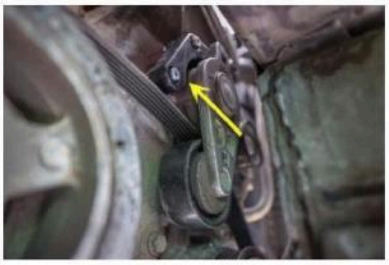
51. Move the tensioner and remove the original car belt



52. Remove the three fixing screws of the tensioner



53. Schematic diagram of the idler wheel bracket



54. Install the idler wheel bracket



55 Install the inert wheel



56 Schematic of tensioner and fixing holder



57 Install the Φ1025MM length positioning pin first



58. Install the tensioner fixing bracket

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59. Install the tensioner



61. Put the hole position template on the original crankshaft wheel



63. As shown in the figure (the drilling depth of the original crankshaft is 20MM)

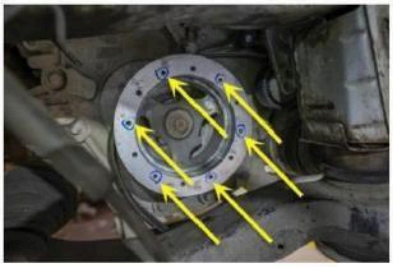


65 Another six wells were crossed with M6 silk cones

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60. Schematic diagram of the crankwheel and punching tools



62. Press the green circle



64 The punches are shown in Fig

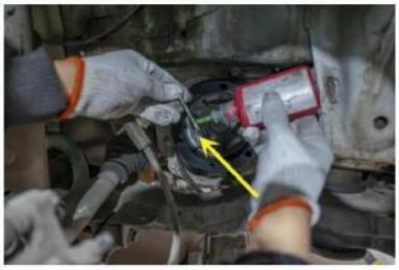


66. Then attack to 20MM depth with the braces tool

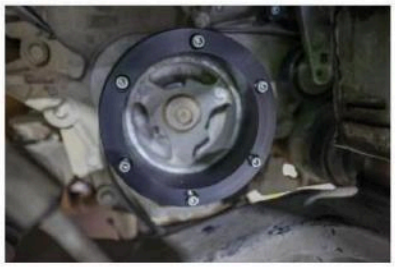
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67. Install the crankshaft pulley



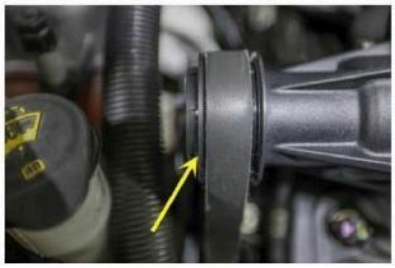
68. Apply thread glue to the crankshaft pulley screw to prevent loosening



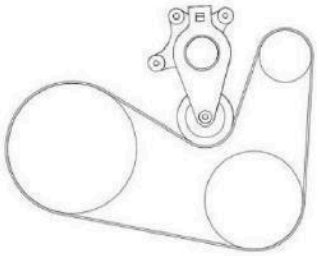
69. Lock the crankshaft pulley screw in entially



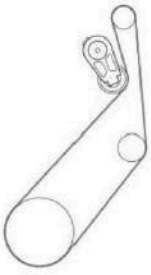
70. Install the supercharger belt



71 The supercharger pulley hangs in the outermost slot



72. Direction diagram of the original car belt



73. Direction drawing of the supercharger belt

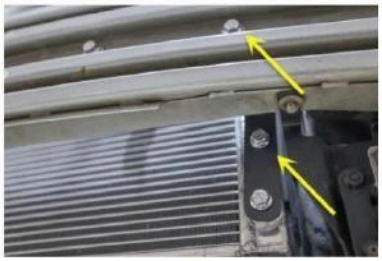


74. Install the engine fixing claw

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75. Schematic diagram of the water tank and the fixing bracket



76. Install the fixing bracket for the main driving side water tank



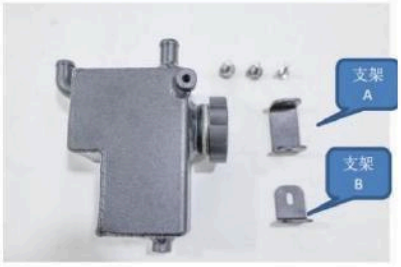
77. Install the water tank fixing bracket on the passenger side



78. Install the middle fixing bracket of the water tank



79. Water tank installation is completed



80. Schematic diagram of the kettle bracket



81. Install the kettle bracket A

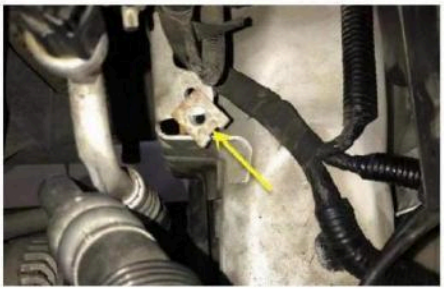


82. Install the kettle bracket B

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83. Schematic diagram of pump pump bracket



84. Install the water pump support card screws first



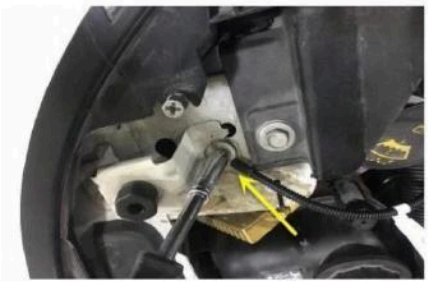
85. Install the water pump bracket



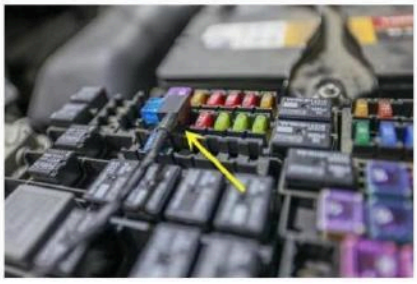
86. Install the pump and pay attention to the pump angle



87. Install the water pump line



88. Install the water pump with iron wire

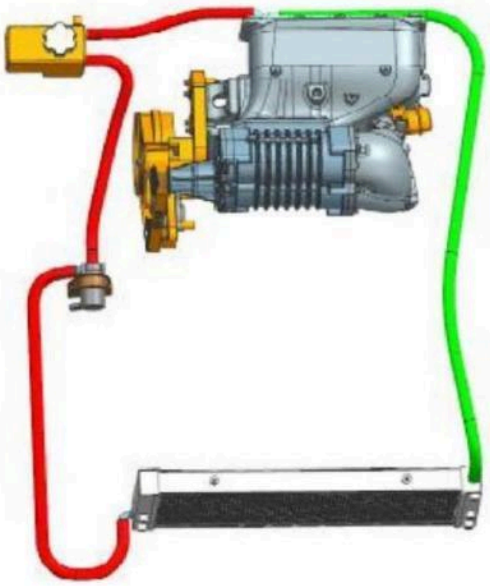


89. Pump fuse for power supply



90. Install the loose hot water pipe

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91. Direction diagram of the loose hot water pipe



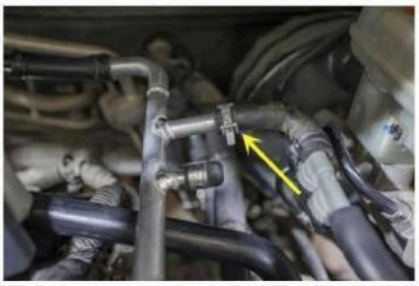
92. Schematic diagram of aluminum tube and hose



93. Install the carbon tank solenoid valve aluminum pipe

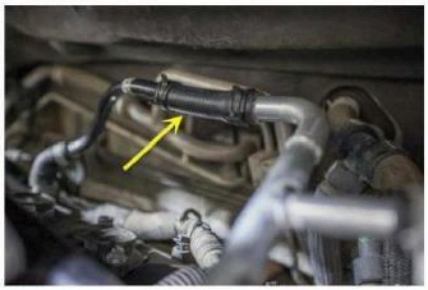


94. Install the U-type rubber pipe and the carbon tank solenoid valve aluminum pipe



95. Install the brake vacuum tube of the original car

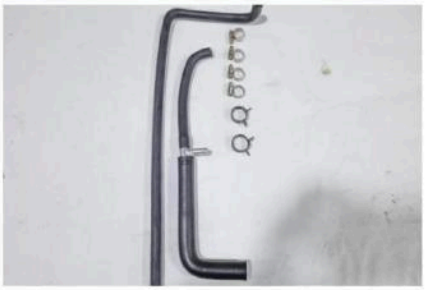
Page 16:



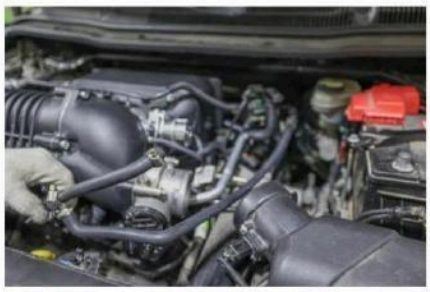
96. Install the passenger-side exhaust gas pipe



98. Schematic diagram of the solenoid valve hose fixing bracket



100. Schematic diagram of the exhaust gas pipe

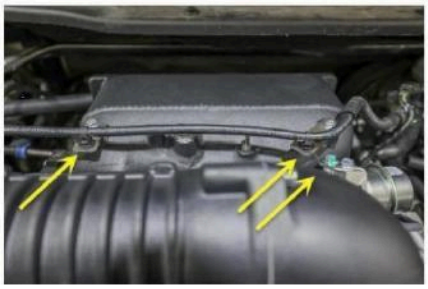


102. Three-way pipe leads to the brake check valve (no pressure here)

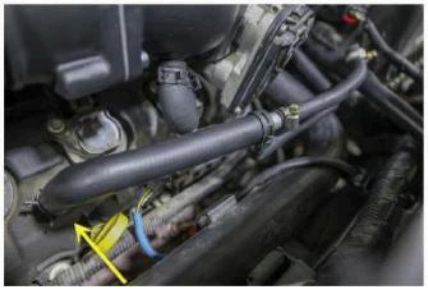
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97. Install the carbon canister solenoid valve



99. Install the solenoid valve hose fixing bracket with two ties



101. Install the exhaust gas pipe



103. Schematic diagram of the air intake hose

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104. Install the air intake hose



105. Installation is complete



106. Install the plug-in computer



107. Hang in to remove the vacuum of the computer



108. Install the plug-in computer tie cable



109. Use Velcro to install a plug computer

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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 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