



WAGNERTUNING

Installation Instruction

Intercooler

Ford F-150 Raptor 3,5 Ecoboost



Kit-Nr.: 200001119

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Important Notes!

These Installation Instructions have to be read carefully before beginning installation work. The company WAGNERTUNING bears no liability for damage caused by incorrect installation!

As manufacturer, we are obliged to point out that any changes you make to a vehicle licensed for use on public roads require approval by a test center and registration in the vehicle documents.

Installation Time (1 unit = 5 minutes)

*The installation time is around **18 units**, which may vary depending on vehicle condition and equipment level.*

Tools Required

- various spanners
- various screwdrivers
- sharp-bladed cutter
- car body saw or similar

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Part list

- 1 *intercooler (black coated)*
- 1 *silicone hose (black)*
- 2 *sheet metal brackets stainless steel*
- 2 *hose clamps 80-100 mm*
- 2 *rubber-metal-buffer M8*
- 2 *plain washer 8mm*
- 2 *M8 hexagon lock nut*
- 4 *allen screw M8x12*
- 1 *washer 5mm*
- 1 *allen screw M5x12*
- 2 *additional bracket oil cooler*
- 2 *allen screw M6x20*
- 2 *plain washer 6mm*
- 1 *cross member stainless steel*
- 2 *adapter fan frame*



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1. demounting

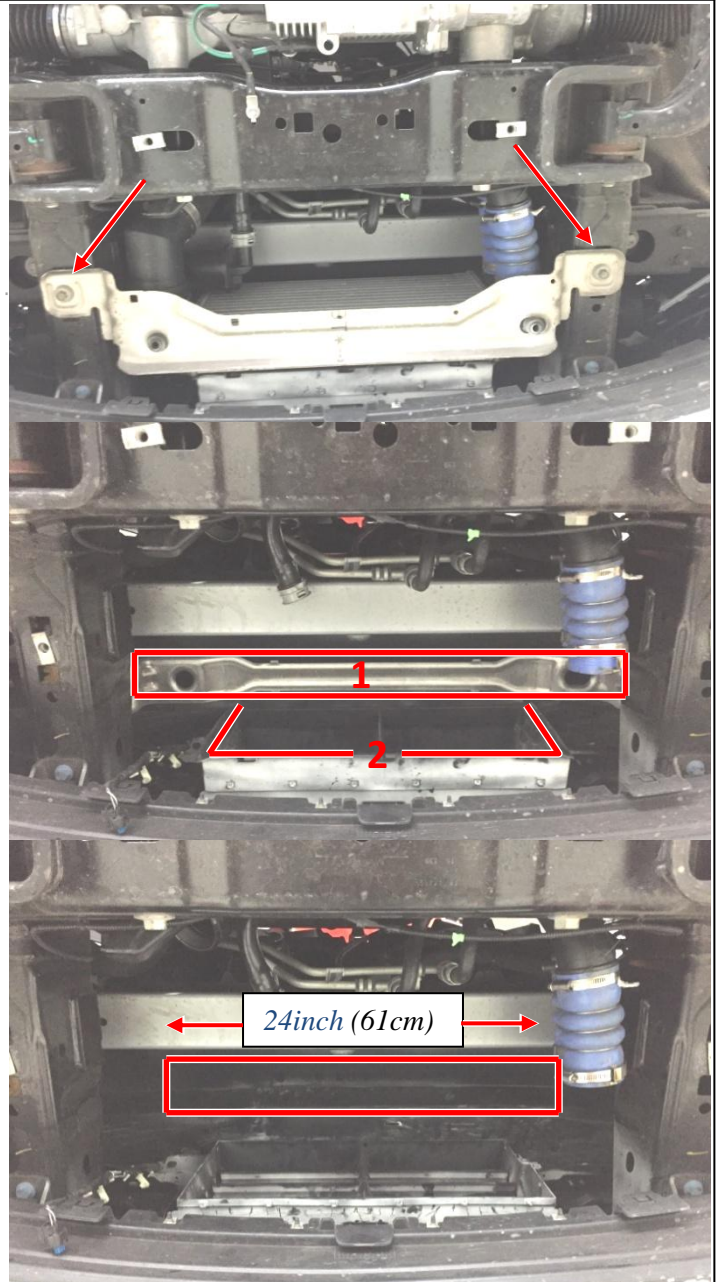
The deinstallation of the intercooler is done according to the guidelines of the automobile manufacturer.

Uninstall the lower cross member and remove all charge air hoses from the stock intercooler. After this, you can remove the stock intercooler and additional fan.

Now uninstall the upper cross member (1) and remove the additional frame of the air guide (2).

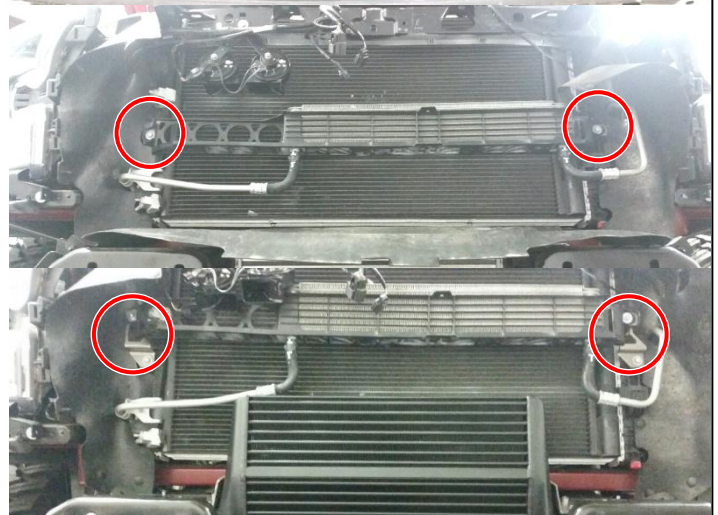
Cut a rectangular hole inside the cover to the engine compartment. Width 24in. Depth results by the extended line from frame of air guide (front) and visible fold at the cover (rear).

Remove the left sided charge air hose with click-connection.



2. relocate oil cooler

Remove the front grille to reach the oil cooler. Then relocate the oil cooler while using the supplied stainless steel brackets. Note, the pipes of oil cooler needs to be movable. If necessary please bend the pipes a bit.



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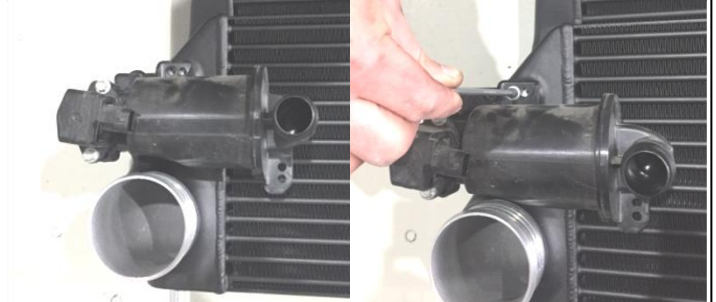
The position of the horn needs to be adjusted. Therefore use the existing horn bracket and edit the bracket in this way so the horns can be mounted again above the oil cooler.

Hint: Cut the marked flap from horn bracket and bend the bracket.(see the pictures)



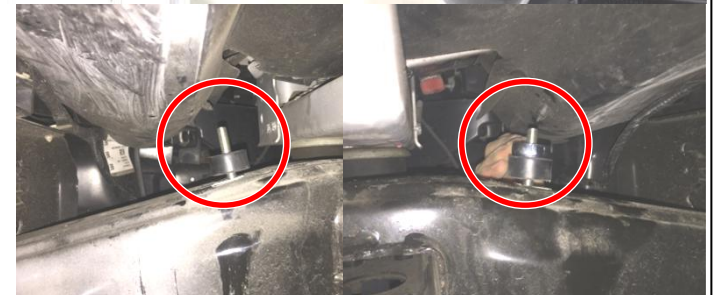
3. preparation

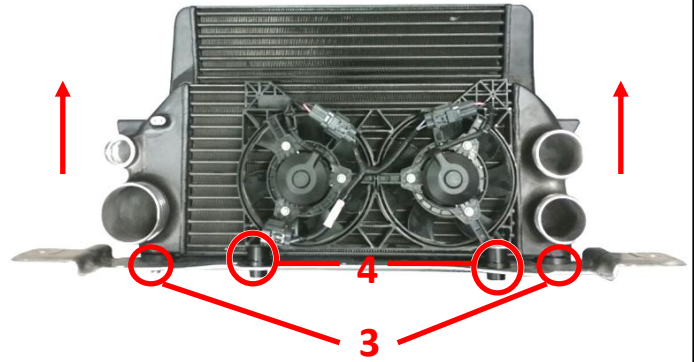
Remove divert air valve from stock intercooler and install it to the WagnerTuning intercooler. For fixing use the supplied M5 allen screw and washer.



4. installation

Screw in rubber-metal-buffer M8 to the mounting points (ri./le.) of upper cross member. Then place the supplied stainless steel cross member and fix them with supplied M8 hexagon lock nuts and washer. Please note! Do not fully tighten, this will allow an easier installation of intercooler.





Place in from below the WagnerTuning intercooler, the fan frame and the lower cross member in the same time. Please note! Don't forget to replace the stock rubber bearing (3)! The supplied plastic adapter (4) are mounted between the fan frame and the lower cross member. At least fix the intercooler to the top cross member with the supplied M8 allen screws.

Install the supplied silicon hose and all other charge air hoses to the WagnerTuning intercooler.

Check that everything is correctly and firmly attached.

