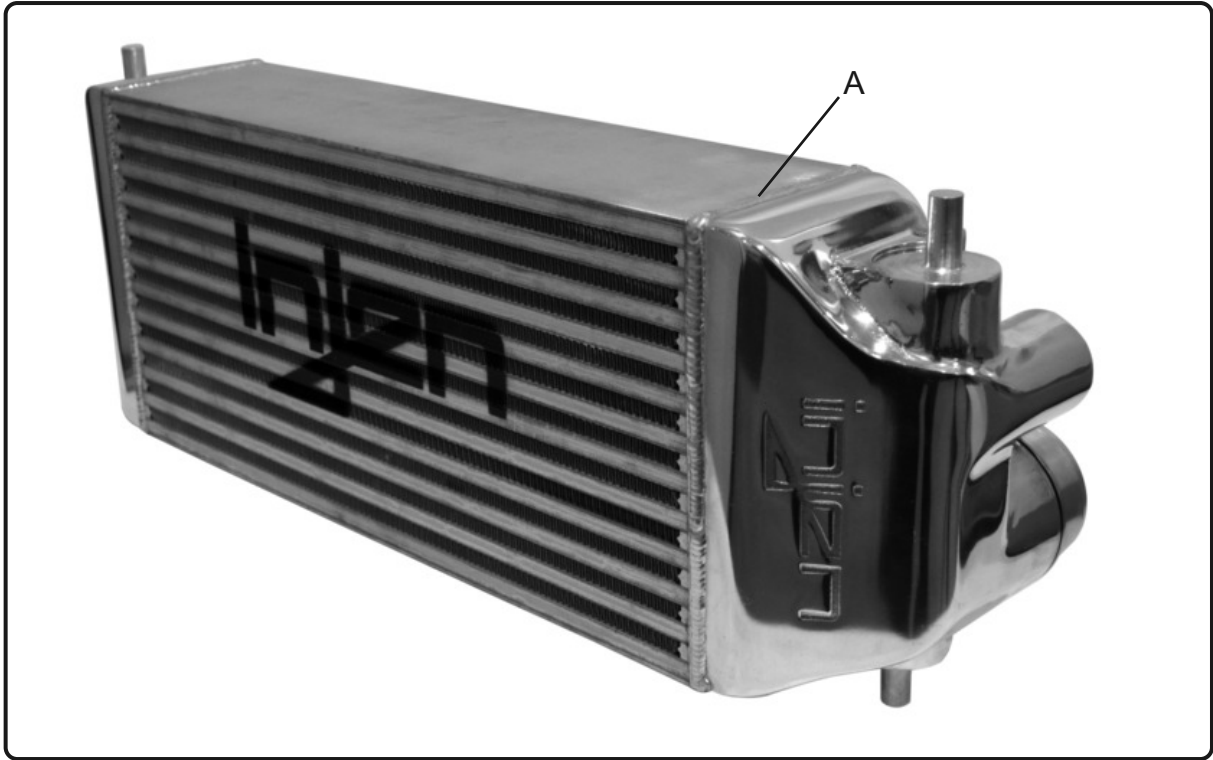




Vehicle Application:
 Make: **Ford**
 Model: F-150 / **Raptor 2nd Gen.**
 Year: **2015-18**
 Engine: 2.7/3.5L ECOboost



Item	Qty	P/N	Discription
A	1	#FM9102i	Intercooler
B	1	#6005	Hex screw M6x16
C	1	#6011	Small washer

- TOOLS REQUIRED**
- Pliers
 - Ratchet
 - 13mm Socket
 - 10mm Socket
 - 8mm nut drive
 - Allen key
 - Flat Blade Screwdriver
 - Phillips Screwdriver
 - 5.5mm nut driver
 - 7mm nut driver

WARNING: FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS AND NOT USING THE PROVIDED HARDWARE MAY DAMAGE THE INTERCOOLER SYSTEM, ENGINE AND COMPONENTS!!!

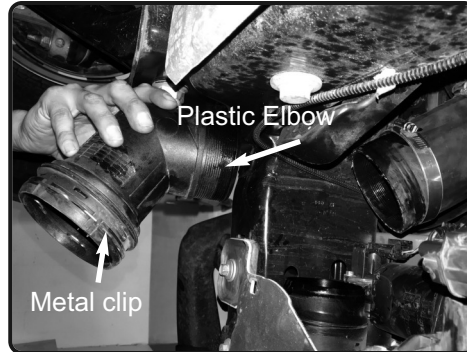
***Do not attempt to install the intercooler system while the engine is hot.**
 Severe burn could result from touching hot engine components!

Report any defective or missing parts to the authorized Injen dealer you purchased this product from. Before installing any parts of this system, please read the instructions thoroughly. If you have any questions regarding installation, please contact your Injen Technology dealer. Installation DOES require some mechanical skills. A qualified mechanic is always recommended.

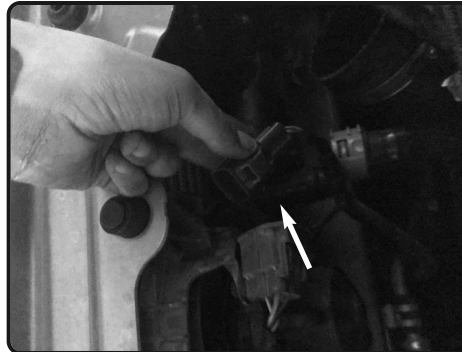
Instruction Manual P/N:FM9102I



1. Raptor model remove the metal pan guard. Loosen the clamp on the cold side of the intercooler side plastic elbow using 7mm nut driver.



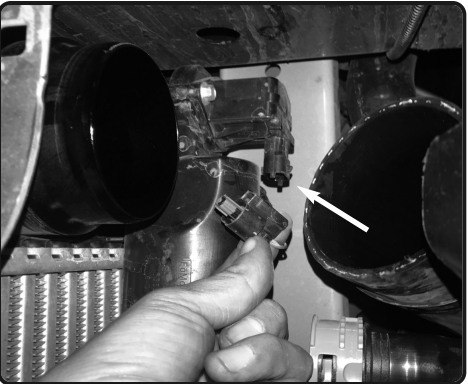
2. With pliers or flat head screw driver, pull back the metal clip and pull out plastic elbow.



7. Raptor model disconnect the fan harness.



3. Raptor model disconnect the fan harness on top of fan also.



4. Disconnect the Diverter valve harness. Pull back and harness away from intercooler for removal.



5. Turn the Diverter valve plastic grey line and pull back away from the unit.



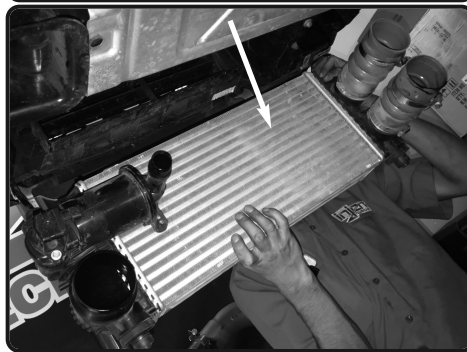
6. Loosen the 2 hot side couplers away from the intercooler pipes. Use 7mm nut driver.



7. Now loosen and pull back the intercooler support bracket out of vehicle. Support the intercooler.



8. Slide the intercooler unit down. Carefully pull out the fan out of vehicle.



9. Remove the intercooler out of the vehicle.



10. Carefully pop out the intercooler air shroud. This will not be used in the vehicle.



11. Carefully loosen the screw holding in the diverter valve, turn and remove from intercooler.

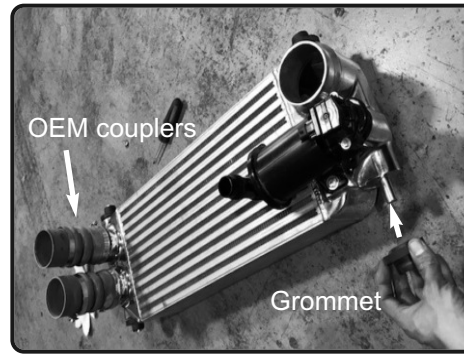
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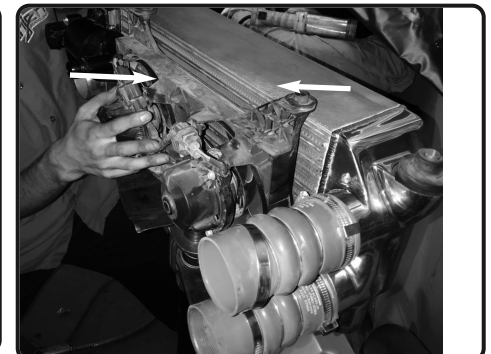
12. Now install into the new injen intercooler. Rotate and secure.



13. Now secure the Diverter valve using provided M6 screw and washer. Tighten using 10mm socket or wrench.



14. Remove the OEM couplers and install to the intercooler and secure. Remove the 4 rubber grommets and install the the studs on intercooler.



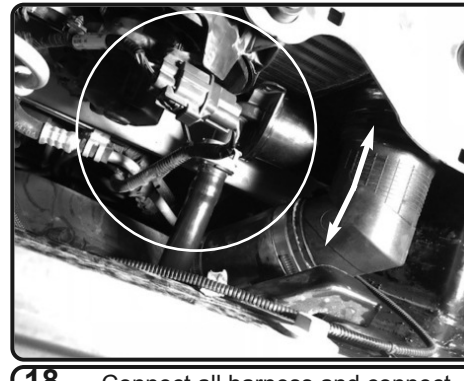
15. Now install the intercooler in reverse steps from taking out the stock intercooler. **Raptor model, install fan.**



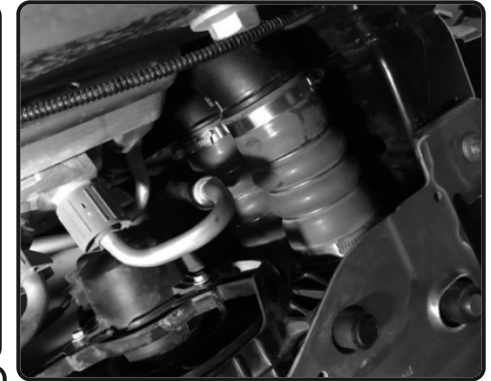
16. Secure the intercooler bracket. Make sure the intercooler tabs and grommets are seated properly.



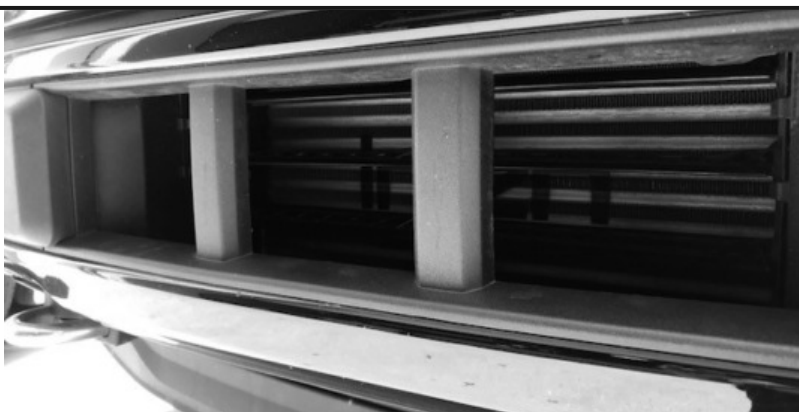
17. Secure and tighten all clamps.



18. Connect all harness and connect Plastic elbow to fitting. Make sure metal clip is seated properly.



19. Secure the couplers. Make sure tighten and secured.



Congratulations! You have just completed the installation of the Injen intercooler system. Periodically, check the alignment of the intercooler, normal wear and tear can cause nuts and bolts to come loose. **Note: Check clearance and adjust if needed! Failure to check the alignment and adjust the intercooler can cause damage that will void the warranty. Injen Technology is not responsible for any damages caused by/from improper installation.**

Test Drive:

1. With the transmission in neutral or park and the parking brake engaged, start the engine. Listen for air leaks or odd noises. If air leaks are detected, secure hoses and connections. For any odd noises, inspect entire system for cause and adjust intercooler as needed. The Injen intercooler will function identically to the factory system but will be more powerful.
2. Perform a road test. Listen for odd noises or rattles and fix as necessary.
3. If there are no issues, continue to enjoy your added performance from the Injen performance intercooler kit.
4. Injen Technology recommends you periodically check clearance and adjust if needed! Failure to check the alignment and adjust the intercooler can cause damage that will void the warranty. Injen Technology is not responsible for any damages caused by/from improper installation.

1. Upon completion of the installation, reconnect the negative battery terminal before you start the engine.
2. Align the entire intercooler system for the best possible fit. Once the intercooler has been properly fitted continue to tighten all nuts, bolts and clamps.
3. Periodically, recheck the alignment of the intercooler system and make sure there is proper clearance. Failure to follow proper maintenance procedures may cause damage to the intercooler and will void the warranty.
4. Start the engine and listen carefully for any odd noises, rattles and/or air leaks prior to taking it for a test drive. If any problems arise go back and check the vacuum lines, hoses and clamps that maybe causing leaks or rattles and correct the problem.