



Vehicle Application:
 Make: **Ford**
 Model: **Ranger**
 Year: **2019-23**
 Engine: **2.3L turbo 4cyl EcoBoost**



Item	QTY.	P/N	Discription
A	1	W-PF9071	Intake tube
B	1	X-11147	Heatshield
C	1	X-1102	3-1/4" Dry filter
D	1	X-3141	3-1/4" x 2-7/8" step hose
E	1	X-4005	#56 clamp
F	1	X-4004	#48 clamp
G	1	X-6020	M6 vibramount
H	2	X-6010	Fender washers
I	1	X-6002	M6 hex nuts
J	1	X-6005	M6 hex screw
K	1	X-8002	grommet
L	1	X-6058	Rubber trim @ 32" L

- TOOLS REQUIRED**
- 10mm Ratchet & Socket
 - 8mm nut drive
 - Allen key
 - Flat Blade Screwdriver
 - Philllips Screwdriver

WARNING: FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS AND NOT USING THE PROVIDED HARDWARE MAY DAMAGE THE INTAKE SYSTEM, ENGINE AND COMPONENTS!!!
***Do not attempt to install the intake 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.

A Limited Lifetime Warranty to the original purchaser against defects in material and workmanship on all Injen intake systems excluding the filter element. Any and all warranty coverage is limited to the repair or replacement of the defective part only, at Injen Technology's discretion. The warranty does not cover incidental or consequential damages, nor does it cover the cost of installation or removal of the defective part or its replacement. Proof of purchase is required.

Instruction Manual P/N:PF9071

Injen intake systems are street legal in most states unless the state is adopting to California Emissions standards. States that have adopted California emission standards include: Arizona, California, Connecticut, District of Columbia, Maine, Maryland, Massachusetts, New Jersey, New Mexico, New York, Oregon, Pennsylvania, Rhode Island, Vermont, and Washington. These states will require an California Air Resource Board Executive Order Number (CARB E.O.) for the legal use of an Injen intake system in your vehicle for use on public roads or highways. These vehicle will be considered "Legal in California only for racing vehicles competition use only, which may never be used upon a public street or highway. **Please keep your factory air box assembly for any future use.**

NOTE: Verify your filter before any cleaning maintenance!

Blue media filter: Dry Air Filter, no oil required.

(SuperNano Web Dry filters require no oil, these can be cleaned using a vacuum or light compressed air. Please do not clean using water or injen restore kit.)

Red media filter: Factory Oiled Air Filter.

(Oiled cotton gauze filters require oil, please use injen restore kit. This filter can use water or cleaning solution for maintenance.)

Please visit injen.com for filter cleaning instructions.

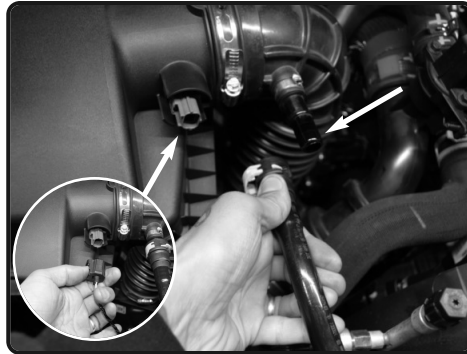


NOTE: DISCONNECT BATTERY BEFORE INSTALLATION!!!

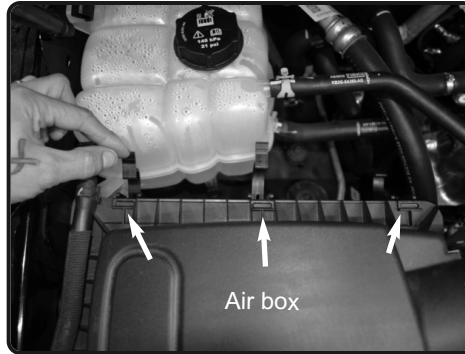
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1. Stock intake system shown.



2. Carefully disconnect the temperature sensor, pull back the harness from the intake tube. Disconnect the crankcase line from the fitting on intake tube.



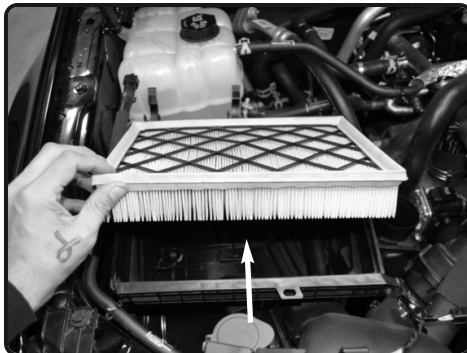
3. Un-clip the upper half of the airbox.



4. Loosen the clamp on the turbo plastic inlet. Pull back the line attached to the intake tube.



5. Lift up and remove the upper half of the air box assembly.



6. Remove the air filter.



7. Loosen the 2 bolts holding in the OEM scoop. lift up and remove the scoop.



8. Loosen and remove the 2 bolts holding in the lower part of the air box using 8mm socket or wrench. Remove the lower air box out of the vehicle.



9. Install the trim seal. Notch corner for easier installation with pliers.



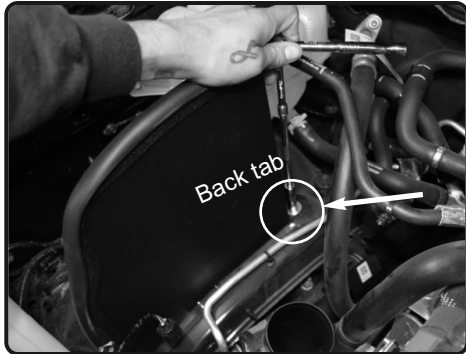
10. Make sure trim is on and secured properly.



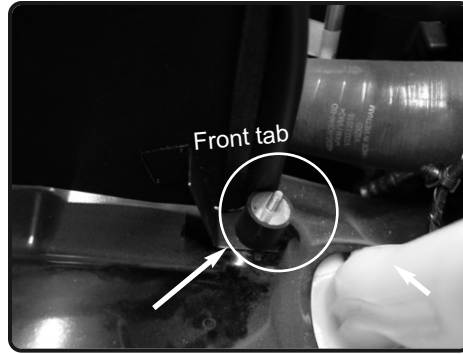
11. Install the grommet to the hole on the intake tube.



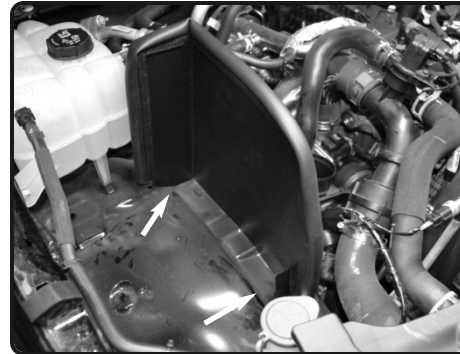
12. Install the heatshield into the vehicle and position the tabs to the threaded inserts from step 8.



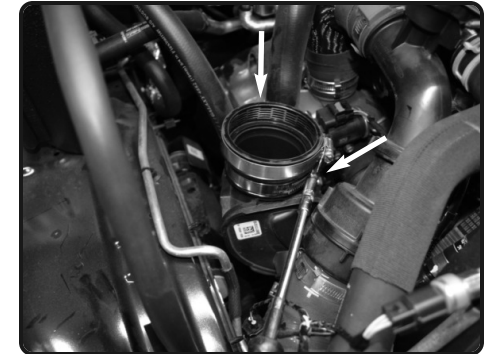
13. Secure the back tab using provided M6 screw and fender washer. Tighten using 10mm socket or wrench.



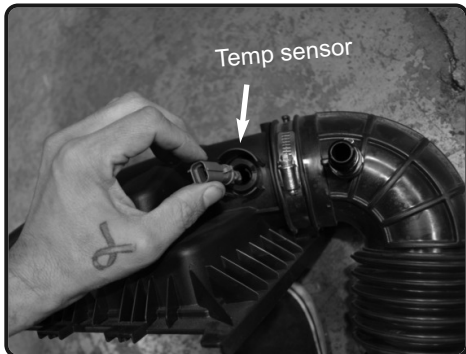
14. Secure the front tab using provided M6 vibramount. This will be using for the intake system bracket.



15. Make sure the heatshield is secured and tighten.



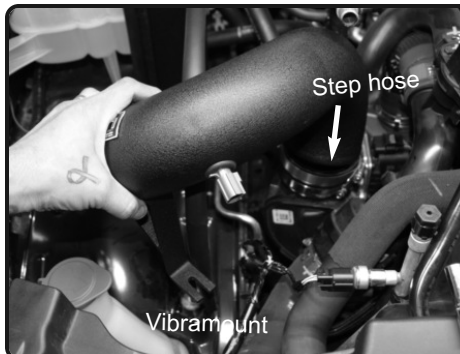
16. Install the provided urethane step hose with clamps to the turbo inlet. Secure and tighten clamp on inlet only.



17. Carefully rotate and remove the temperature sensor out of the OEM air box.



18. Install the temperature sensor into the new injen intake to the grommet from step 11.



19. Install the intake tube into the vehicle and position the bracket to the vibramount and step hose.



20. Re-connect the harness.



21. Connect the crankcase line from step 2 to the fitting on the intake tube and secure.



22. Once positioned, secure the bracket using provided fender washer and M6 nut.



23. Secure and tighten the bracket using 10mm socket or wrench.



24. Install the air filter to the intake tube, and tighten using 8mm nut driver.



Congratulations! You have just completed the installation of this intake system. Periodically, check the alignment of the intake, 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 intake 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 intake as needed. The Injen intake will function identically to the factory system but will be louder and 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 Intake kit.
4. Injen Technology recommends you periodically check clearance and adjust if needed! Failure to check the alignment and adjust the intake 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 intake system for the best possible fit. Once the intake has been properly fitted continue to tighten all nuts, bolts and clamps.
3. Periodically, recheck the alignment of the intake system and make sure there is proper clearance around and along the length of the intake. Failure to follow proper maintenance procedures may cause damage to the intake 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.
5. Check the filter for excessive dirt build up. Clean or replace the filter with an original Injen filter (can be bought on-line at "injenonline.com"). Congratulations! You have just completed the installation of the best intake system sold on the market. Enjoy the added power and performance of your new intake system.