INSTALLATION DIFFICULTY RATING

INTERCOOLER PIPING SYSTEM

Installation Instructions

Part Number: SES9301ICPWB / SES9301ICPWR

YEAR	MAKE	MODEL	ENGINE
2021-2026	FORD	BRONCO	V6-2.7L TWIN TURBO

PARTS INCLUDED

ITEM	QTY	PART NO.	DESCRIPTION
A	1	W-SES9301ICP-1	PRIMARY HOT SIDE INTERCOOLER PIPE
B	1	W-SES9301ICP-2	SECONDARY HOT SIDE INTERCOOLER PIPE
C	1	W-SES9301ICP-3	TERTIARY HOT SIDE INTERCOOLER PIPE
D	1	W-SES9301ICP-4	COLD SIDE INTERCOOLER PIPE
E	1	X-12101	CAST ALUMINUM Y-PIPE
F	2	X-3259	1.50"-2.25" STEPPING HUMP HOSE
G	2	X-3223	2.25" HUMP HOSE
H	3	X-3193	2.75" HUMP HOSE
I	1	X-3186	2.75" 90 DEGREE ELBOW HOSE
J	2	X-4002	SAE 024 CLAMP
K	6	X-4009	SAE 036 CLAMP
L	8	X-4003	SAE 044 CLAMP
M	2	X-14106	INTERCOOLER ADAPTER
N	1	X-8054	1/8" NPT PLUG
O	1	X-6005	M6 X 1 X 16MM HEX CAP BOLT
P	3	X-6056	M6 X 1 X 12MM SOCKET HEAD BOLT
Q	1	X-15023	M6 STAND OFF
R	1	X-6020	M6 VIBRA-MOUNT (MALE/MALE)
S	3	X-6002	M6 FLANGE NUT
T	3	X-6010	1/4" FENDER WASHER

TOOLS REQUIRED

Ratcheting wrench	Flat head screwdriver	Needle nose pliers
10mm socket	8mm socket	7mm socket

BEFORE YOU BEGIN

Please check the list of parts included and 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.***

This product includes a Limited Lifetime Warranty to the original purchaser against defects in material and workmanship on all Injen intercooler piping systems. 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.

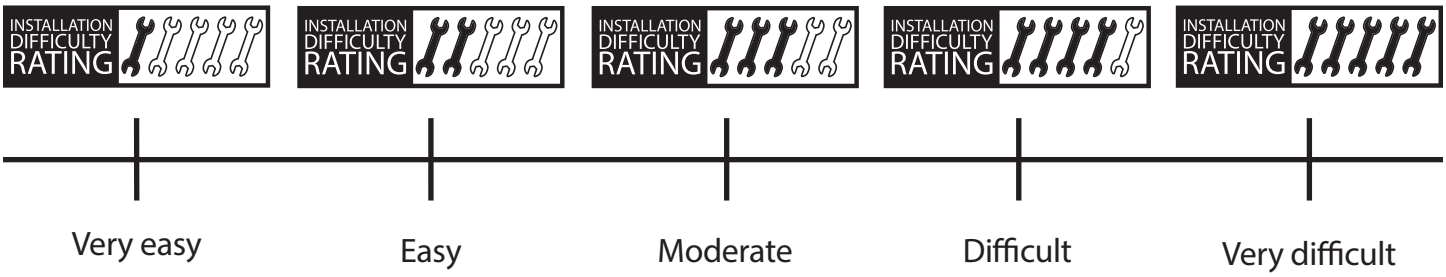
Do not attempt to install the intercooler piping system while the engine is hot. Severe burn could result from touching hot engine components.

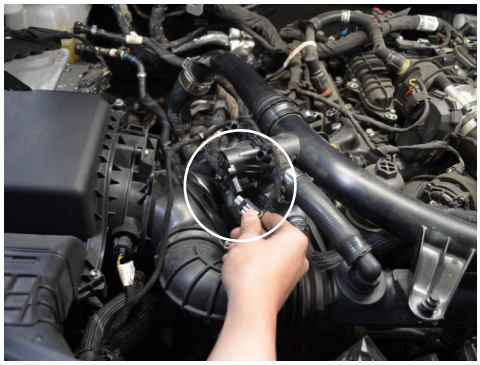
WARNING: Failure to follow installation instructions and not using the provided hardware may damage the intercooler piping system, engine, or components of either.

CARB Note: Injen intercooler piping 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 a 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. Otherwise, the 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 intercooler piping system for any future on-road use.

Note: It is always recommended to disconnect your battery before disconnecting any sensors.

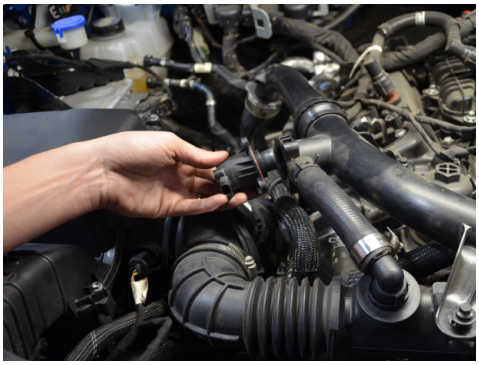
DIFFICULTY RATINGS



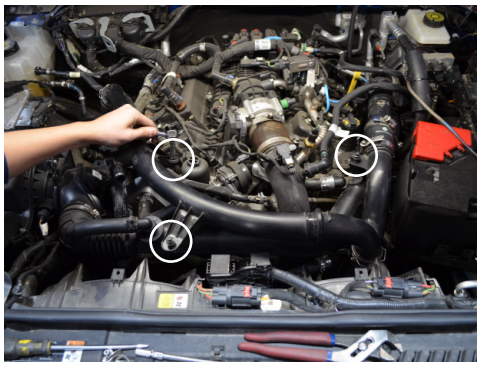


1. Disconnect the diverter valve harness.

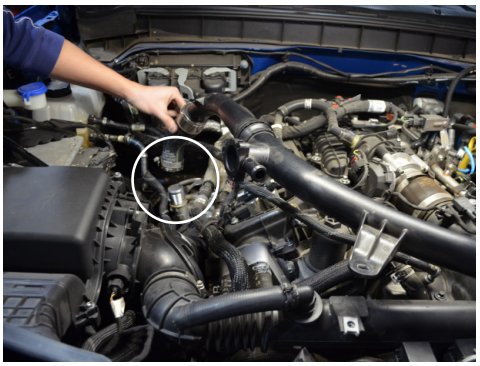
2. Disconnect the hose attached to the diverter valve.



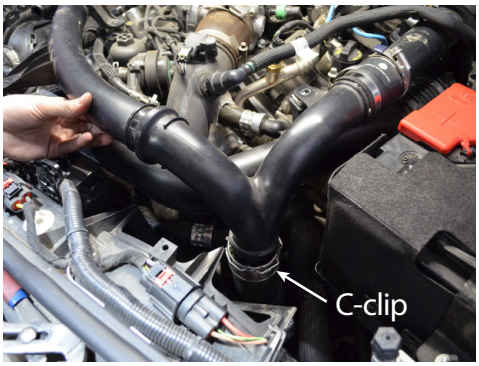
3. Remove the three bolts securing the diverter valve, then remove the diverter valve.



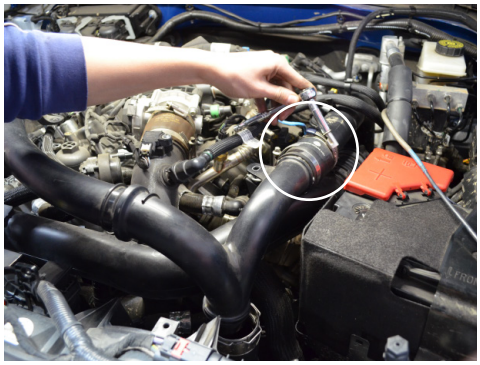
4. Remove the three bolts holding down the hot side intercooler pipe.



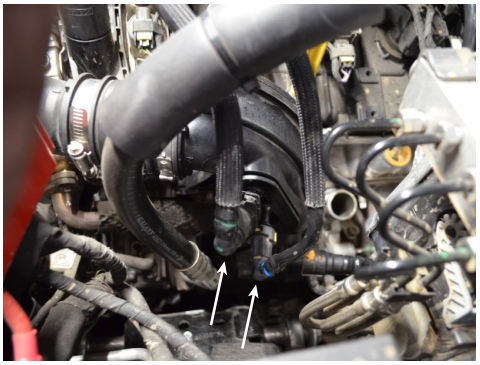
5. Detach the hose connecting the intercooler pipe to the passenger side turbo.



6. Pull back the intercooler pipe C-Clip and then lift up the intercooler pipe.

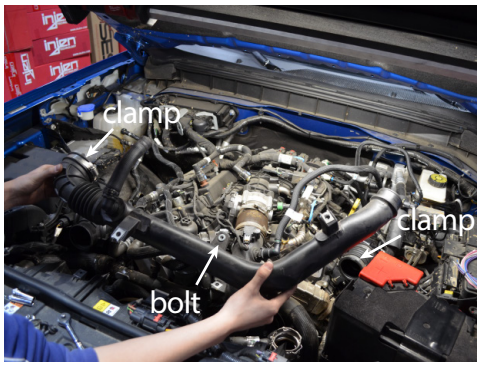


7. Loosen the clamp connecting the driver side intercooler pipe and the Y connecting pipe then remove the intercooler pipe.

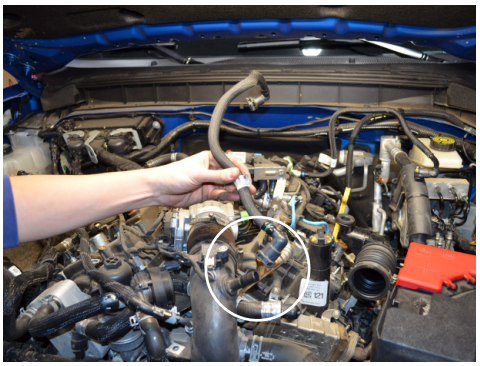


8. Disconnect the two crankcase lines on the intake tube by pressing down on the locking clips.

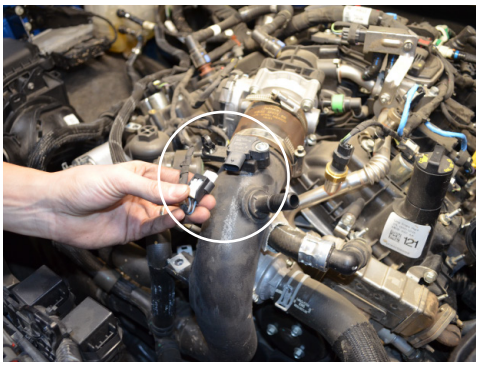
9. Remove the driver side intercooler pipe.



10. Remove the bolt securing the front intake tube to the cold side intercooler pipe. Then loosen the two clamps and remove the tube.

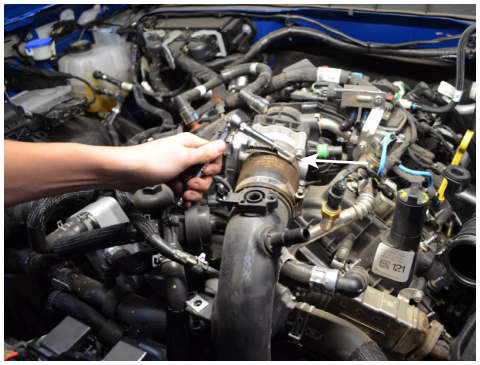


11. Disconnect the crankcase line on the cold side intercooler pipe by pressing down on the locking clip.



12. Disconnect the pressure sensor harness.

13. Remove the pressure sensor from the cold side intercooler pipe.



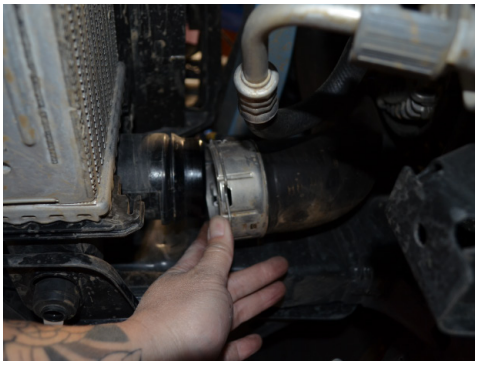
14. Loosen the clamp securing the cold side intercooler pipe to the throttle body.

15. Remove the bolt securing the cold side intercooler pipe to the bracket.

16. Loosen the clamp securing the plastic intercooler pipe to the intercooler hose.

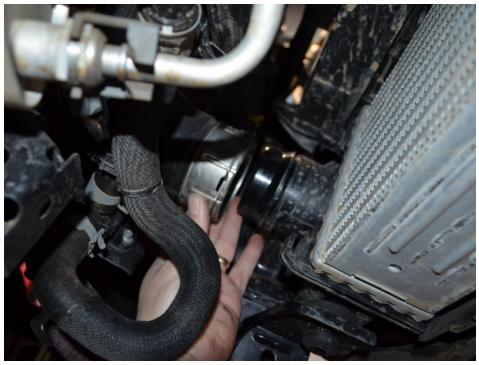
17. Remove the intercooler pipe from the engine bay.

18. Remove the OEM skid plate.



19. Disengage the C-Clip securing the cold side (passenger side) hose then detach the hose from the intercooler.

20. Remove the cold side intercooler hose.



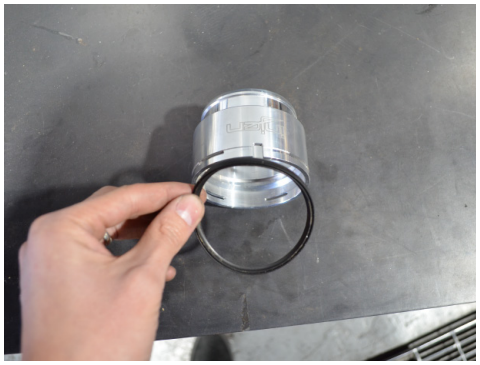
21. Disengage the C-Clip securing the hot side (driver side) hose then detach the hose from the intercooler.

22. Remove the hot side intercooler hose.

23. Remove the C-Clip from both intercooler hoses.

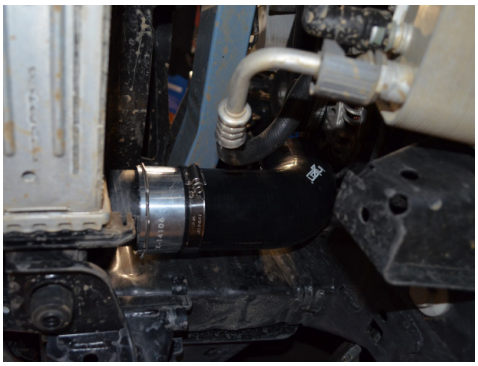
24. Install the C-Clip onto both machined adapters.

25. Remove the OEM O-ring from both intercooler hoses. ***Note the direction it was removed in.***

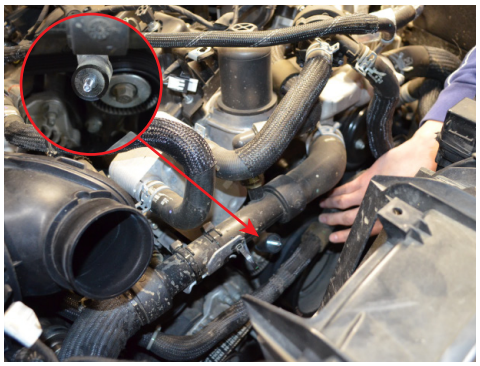


26. Install the OEM O-Ring onto both machined adapters ***in the same direction it was removed in.***

27. Install the elbow hose onto the machined adapter. Secure using the provide clamps.



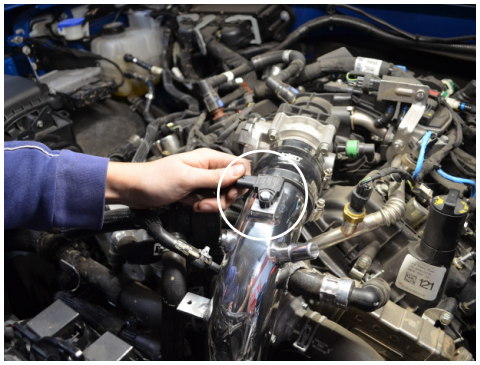
28. Attach the machined adapter to the intercooler outlet (passenger side) Make sure you hear the C-Clip engage.



29. Secure the provided vibra-mount to intercooler pipe bracket using the provided M6 nut and washer.

30. Attach the 2.75" hump hose to the throttle body. Secure using the provided clamps.

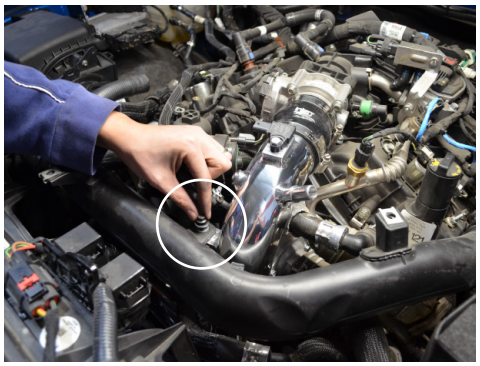
31. Install the Injen cold side intercooler pipe. Secure to the vibra-mount once the pipe is in place.



32. Install the OEM pressure sensor onto the Intercooler pipe. Secure with the provided M6 bolt.

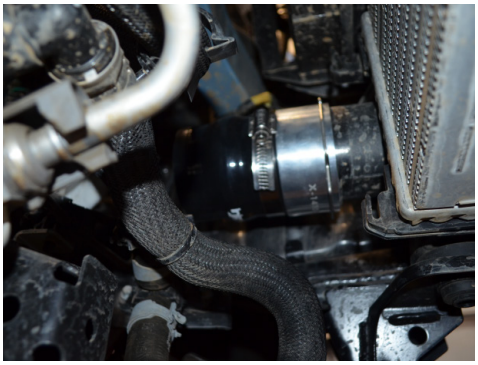
33. If not using the methanol injection port. Plug the hole with the provided NPT plug.

34. Reinstall the intake tube.



35. Secure the intake tube to the intercooler pipe using the OEM bolt.

36. Attach the 2.75" hump hose to the intercooler adapter. Secure using the provided clamps.



37. Attach the machined adapter to the intercooler inlet. Make sure you hear the C-Clip engage.

38. Install the primary hot side intercooler pipe. NOTE: Make sure this pipe is completely bottomed out on the adapter in fig. 39

39. Secure the primary hot side intercooler pipe. Note: Make sure the pipe from fig. 38 does not come in contact with A/C compressor.

40. Attach the 2.75" hump hose to the cast Y-Pipe. Then secure the Y-Pipe to the primary hot side charge pipe.

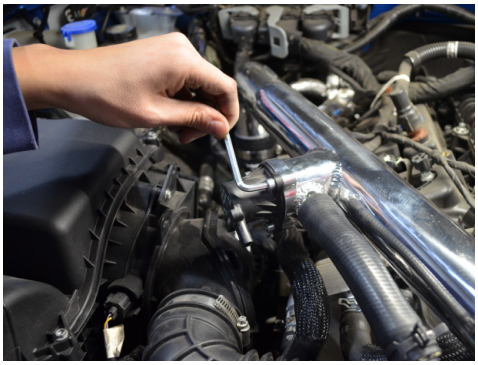
41. Attach the 2.25" hump hose to both ends of the cast Y-Pipe. Secure using the provided clamps.

42. Attach the 1.50"-2.25" stepping hump hose to the passenger side turbo outlet. Secure using the provided clamps.

43. Install the secondary hot side tube.

44. Secure the hot side tube with the OEM bolts.

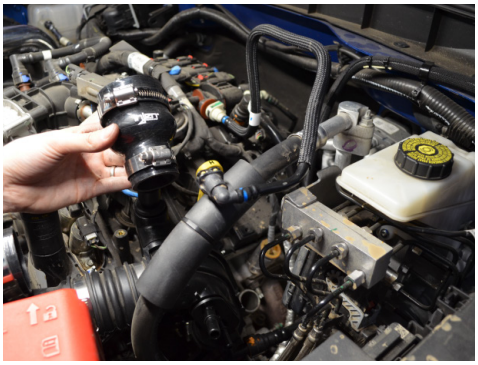
45. Reconnect the OEM diverter valve hose.



46. Reinstall the diverter valve to the injen tube. Secure using the provided M6 socket head bolts.

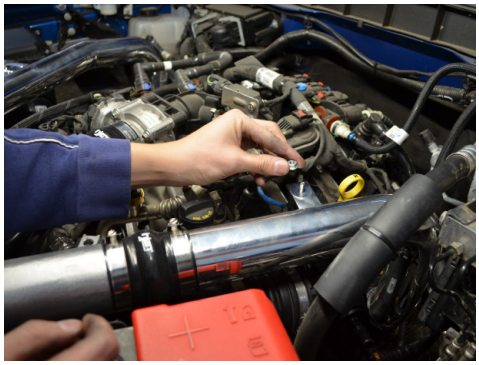
47. Reconnect the diverter valve harness.

48. Install the M6 stand off onto the intake tube grommet.

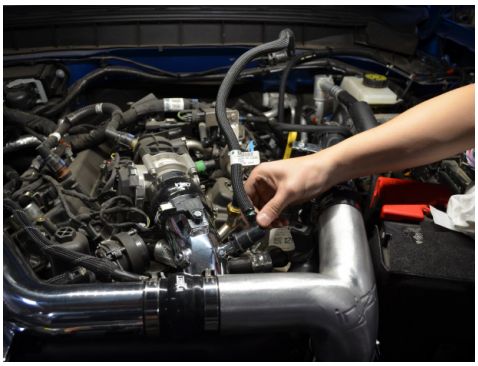


49. Attach the 1.50"-2.25" stepping hump hose to the driver side turbo outlet. Secure using the provided clamps.

50. Install the tertiary hot side intercooler pipe. Secure using the provided clamps.



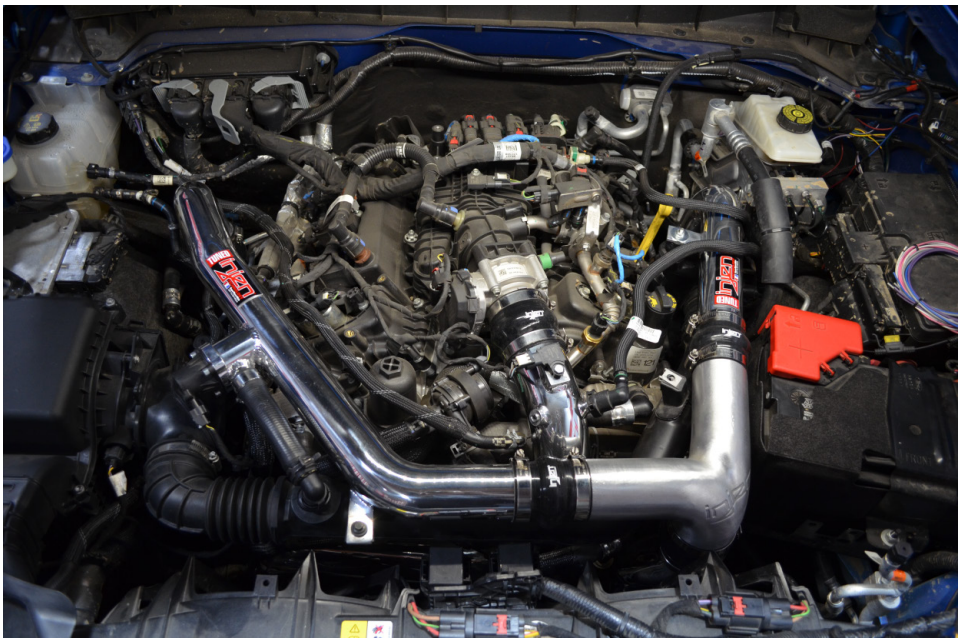
51. Secure the tertiary hot side intercooler pipe with the provided M6 nut and washer.



52. Reconnect the crankcase line to the cold side intercooler pipe. Reconnect the pressure sensor harness.

53. Reconnect both crankcase lines to the intake tube.

54. Ensure all bolts, nuts and clamps are properly secured.



CONGRATULATIONS! You have just completed the installation of this intercooler piping system. Periodically, check the alignment of the intercooler piping, 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 piping can cause damage that will void the warranty. Injen Technology is not responsible for any damages caused by/from improper installation.