

advanced FLOW engineering

Instruction Manual P/N: 46-20342-R

Make: Honda Model: Civic / Civic Si Year: 2016-2018 Engine: I4 – 1.5L (t)

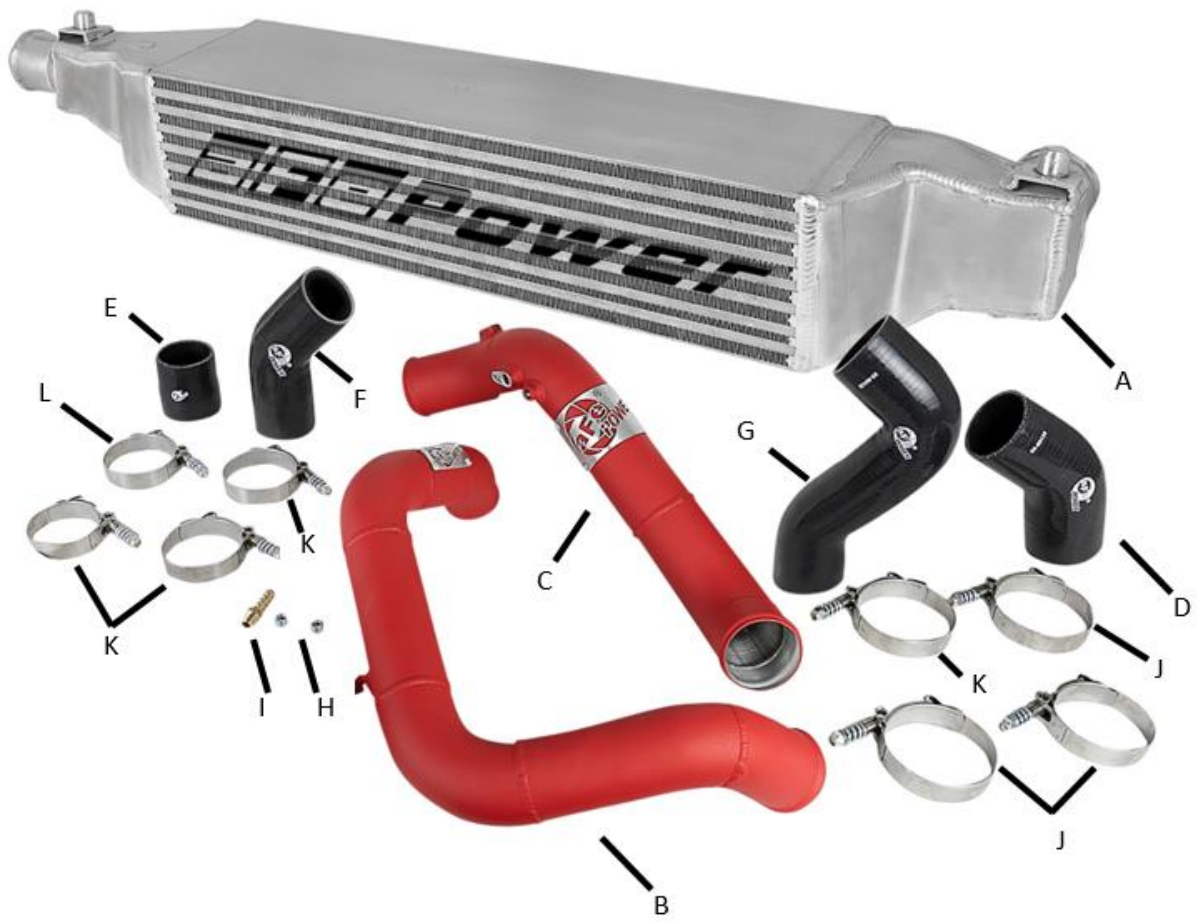


- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description
A	1	S/A I/C: 46-20341
B	1	Tube, Hot Side: 46-20344-R
C	1	Tube, Cold Side: 46-20344-R
D	1	Coupling, Silicone Elbow: 2-1/2" x 45°
E	1	Coupling, Silicone Reducer: 2-1/4"x 1-7/8"
F	1	Coupling, Silicone Elbow: 2-1/4" x 45°
G	1	Hose, Silicone
H	2	Plug: 1/8" NPT
I	1	Fitting, Barb to 1/8" NPT
J	3	Clamp, Spring Loaded T-Bolt: 2-7/8"
K	4	Clamp, Spring Loaded T-Bolt: 2-3/8"
L	1	Clamp, Spring Loaded T-Bolt: 2"

Tools Needed: 5.5mm, 8mm, 10mm, 7/16" sockets, 1/2" wrench, 3/16" allen wrench, 6mm allen wrench, 3/8" drive ratchet, 6" extension, panel popper, flat blade screwdriver, philips screwdriver, thread sealant, masking tape.

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.





1. Park the vehicle on level ground and engage the parking brake.
2. Disconnect the negative battery cable.
3. This is a good time to place masking tape across the bumper, side marker lights, and headlights to protect the parts from being scratched.



4. Remove plastic radiator cover, using a panel popper or flat blade screwdriver.
5. Remove the three mounting screws on each side securing the inner fender liner to the front bumper.



6. Depress the retaining clip behind the fender liner to remove the side marker lights on each side then disconnect the connectors.
7. Release the clip under each of the side marker lights securing the bumper to the vehicle using a flat blade screwdriver.



8. Remove the clips securing the trim seal across the top of the bumper.
9. Release the two (2) clips securing the top of the bumper to each of the headlights using a flat blade screwdriver.



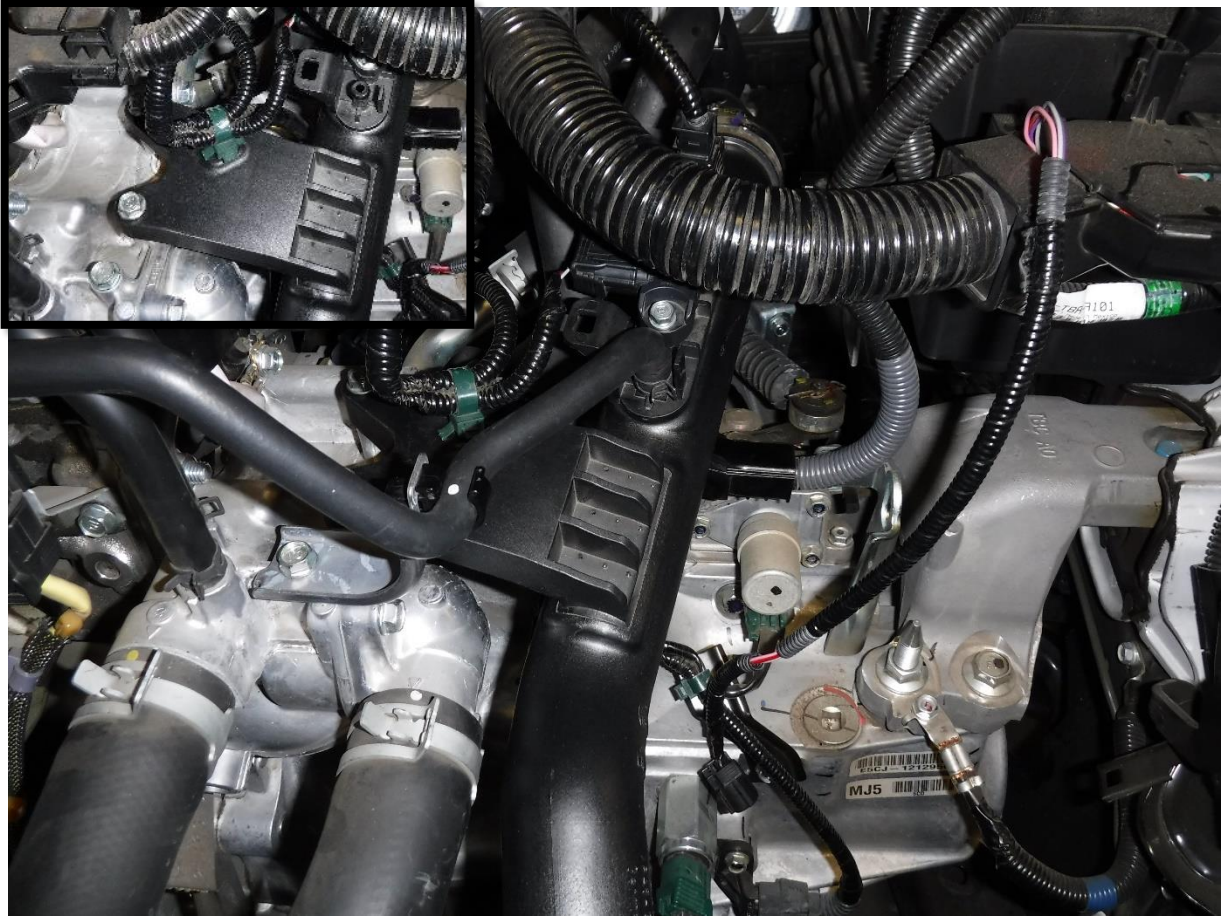
10. Remove all the bolts and clips securing the belly pan to the vehicle.
11. Remove the belly pan.



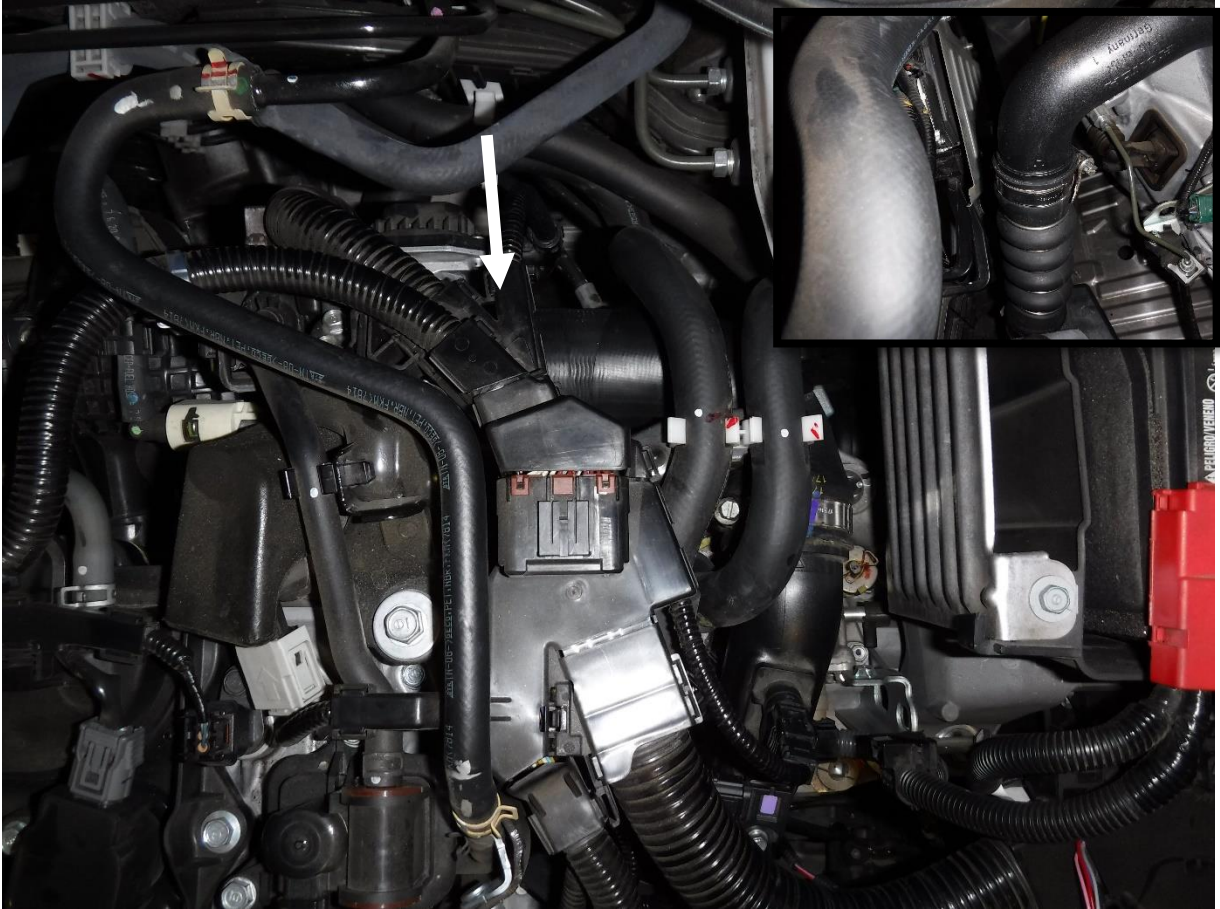
12. If the vehicle is equipped with fog lights, disconnect the connector for each of the fog lights once sides of bumper are unclipped from the vehicle.
13. Remove front bumper.



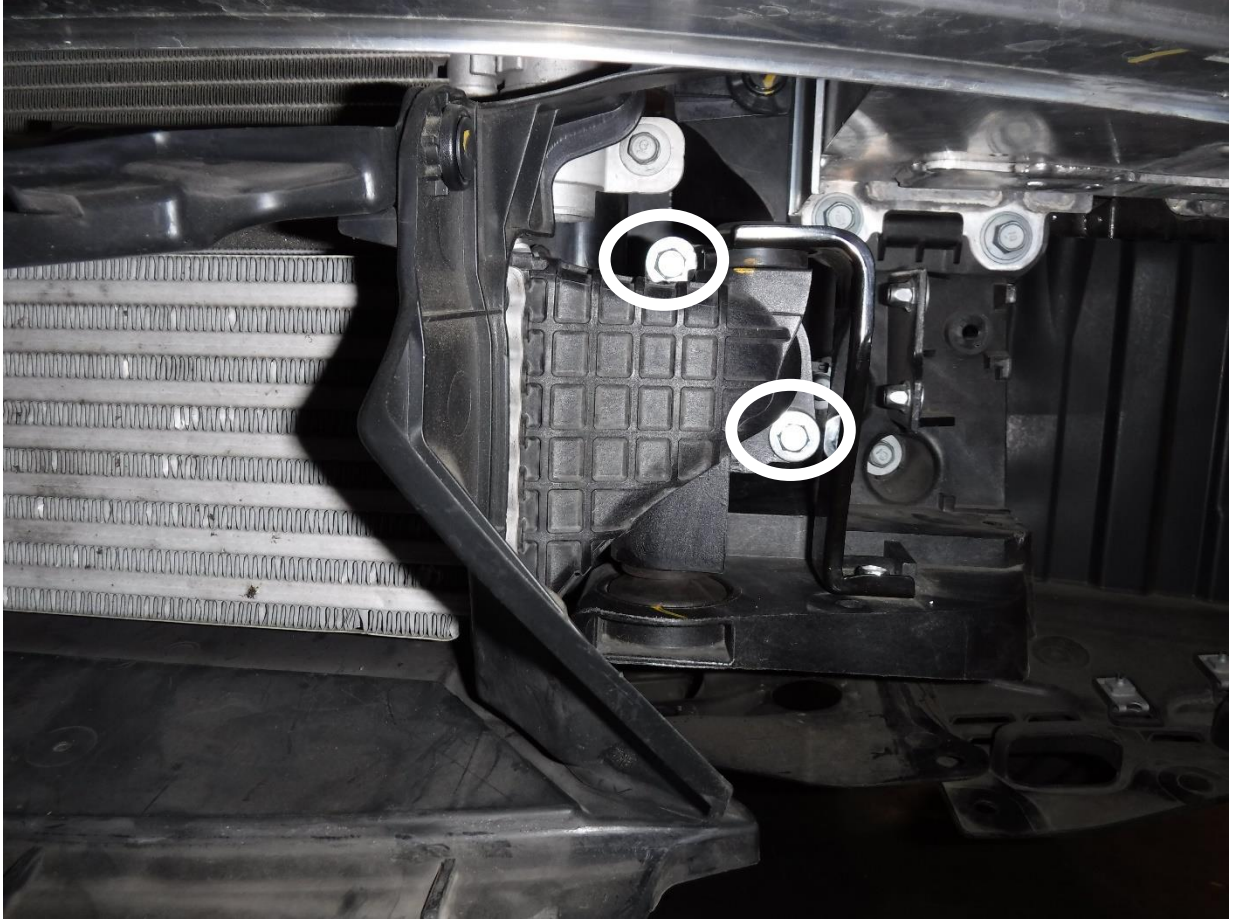
14. Disconnect the MAF sensor on the intake tube.
15. Remove the airbox and intake tube from the vehicle.



16. Unclip the wire harness from the cold side intercooler tube.
17. Disconnect the two (2) connectors on the cold side intercooler tube.
18. Slide the spring clamp back on the vacuum hose, then disconnect the hose from the cold side intercooler tube.
19. Remove the bolt securing the vacuum hose bracket to the engine, then remove the bracket from the vehicle.
20. Remove the two (2) screws securing the cold side intercooler tube to the engine.

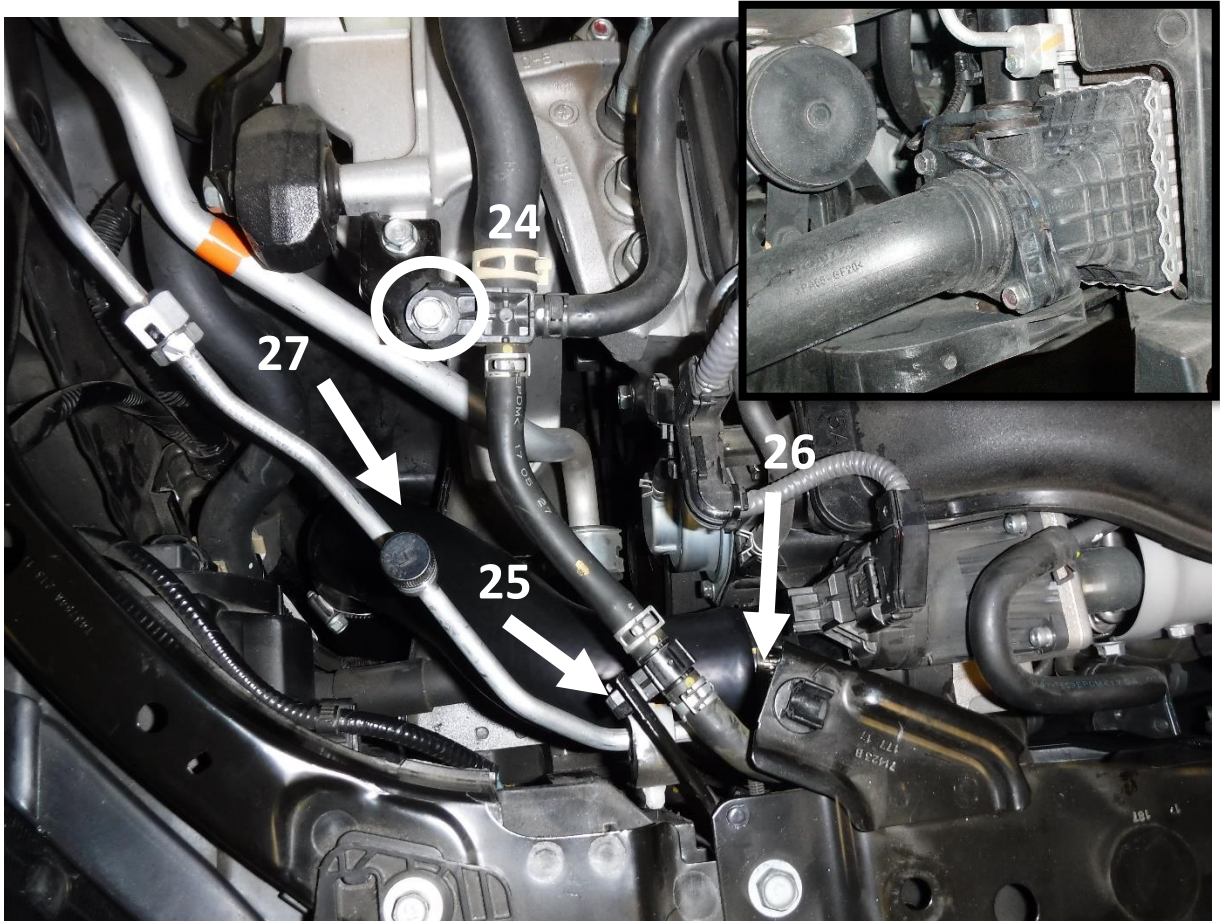


21. Loosen the clamp securing the coupling to the throttle body, in the back of the engine.
22. Loosen the clamp securing the cold side intercooler tube to the lower coupling, located directly behind the radiator fan.
23. Remove the upper cold side intercooler tube from the vehicle.

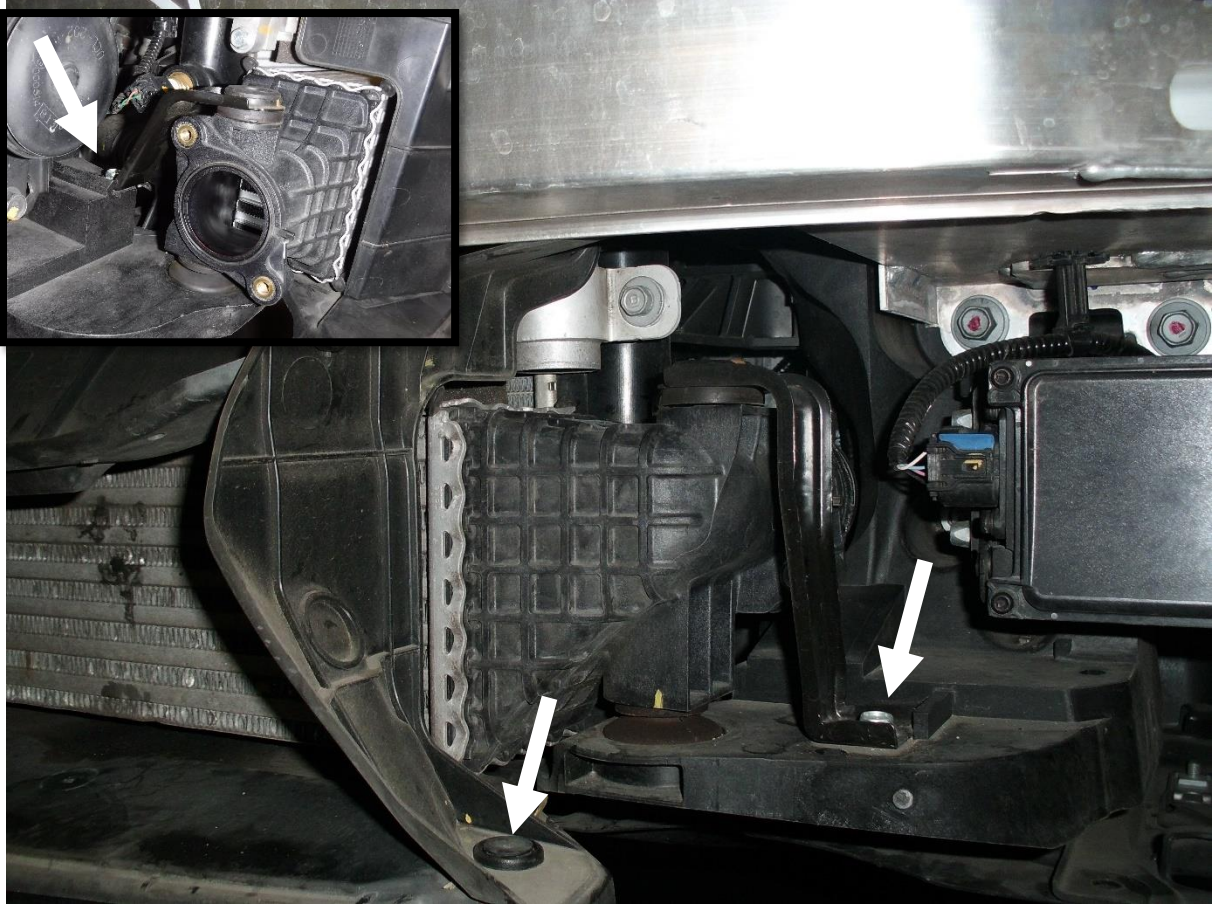


24. Remove the two (2) screws securing the lower cold side intercooler tube to the factory intercooler.

25. Remove the lower cold side intercooler tube from the vehicle.



- 26. Remove the screw securing the radiator over-flow hose to the vehicle.
- 27. Remove the clip securing the over-flow hose.
- 28. Loosen the clamp securing the hot side intercooler tube to the turbo.
- 29. Remove the screw securing the intercooler tube to the vehicle.



30. Remove the screws securing the two (2) intercooler mounting brackets to the vehicle.
31. Remove the mounting brackets from the vehicle.
32. Remove the clip securing the air deflector on the driver's side of the vehicle.



33. Remove the clip securing the air deflector on the passenger's side of the vehicle.
34. Remove the intercooler from the vehicle.



35. Transfer all four (4) of the mounting grommets onto the supplied aFe intercooler.



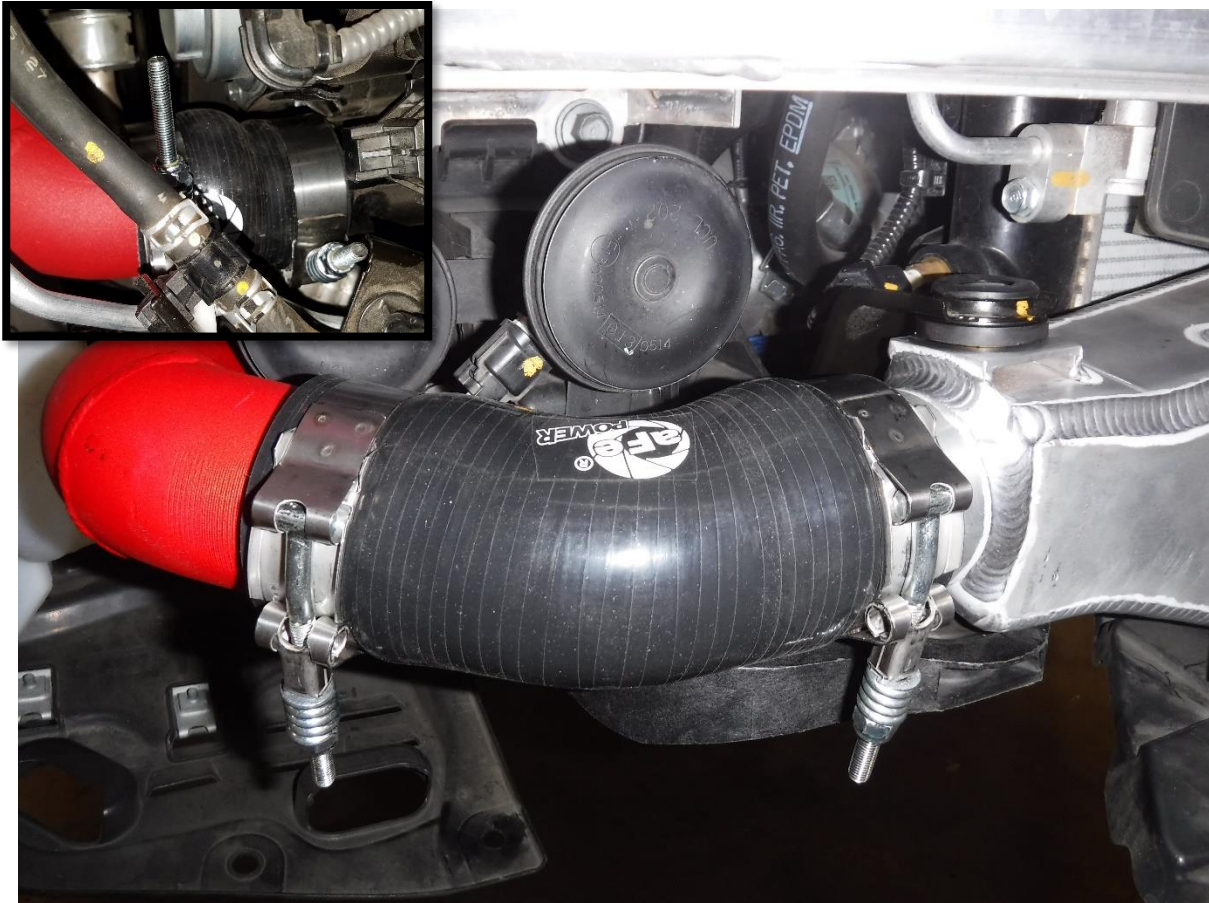
36. Install the aFe intercooler into the vehicle.
37. Install the factory mounting brackets back into the vehicle to mount the aFe intercooler.
38. Remove the three (3) clips securing the lower air deflector to the vehicle.
39. Reinstall the two (2) clips that secure the side air deflectors to the lower air deflector, from steps 30 and 31.
40. Reinstall the three (3) clips securing the lower air deflector to the vehicle, from step 36.



41. Transfer the rubber mounting grommet onto the supplied aFe hot side intercooler tube.

Note: Be sure to use thread sealant on the plugs or sensors to prevent any leaking

42. If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug into the fitting on the aFe hot side intercooler tube and tighten.



43. Install the supplied 2-1/4" x 1-7/8" reducer coupling onto the shorter end of the aFe hot side intercooler tube with one (1) of the supplied 2-3/8" clamps (do not tighten the clamp yet).
44. Install the aFe hot side intercooler tube into the vehicle along with the supplied 2" clamp at the top to connect the reducer coupling to the turbo (do not tighten the clamp yet).
45. Install the supplied 2-1/4" x 45° coupling along with another 2-3/8" clamp onto the bottom of the hot side intercooler tube (do not tighten the clamp yet).
46. Connect the coupling from the previous step to the inlet fitting on the intercooler along with another 2-3/8" clamp.
47. Install the factory mounting bolt into the bushing on the aFe hot side intercooler tube and secure.
48. Ensure the tubes are not touching anything then tighten all the clamps.
49. Reinstall the screw and clip securing the radiator over-flow hose to the vehicle.



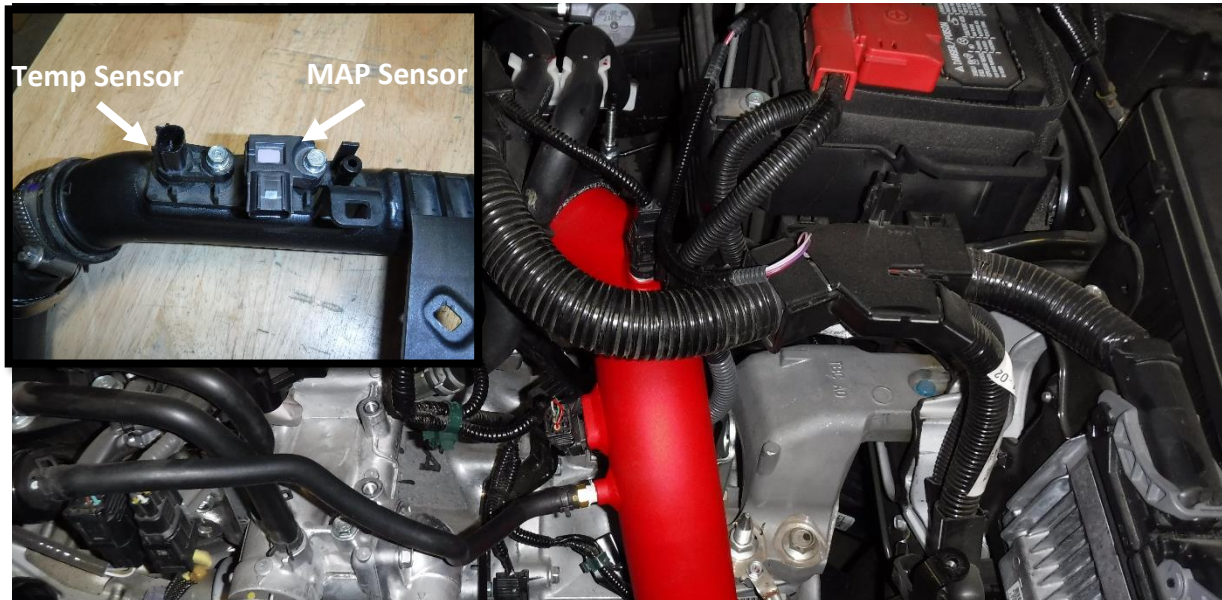
Note: Be sure to use thread sealant on the plugs, sensors, or fittings to prevent any leaking

50. Install the supplied barbed 1/8" NPT fitting onto the upper aFe cold side intercooler tube and tighten.
51. If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug into the fitting on the end of the aFe cold side intercooler tube and tighten.



52. Install the supplied silicone hose along with one (1) of the supplied 2-3/8" clamps onto the intercooler from the top (do not tighten the clamp yet).

53.



54. Remove the temp sensor and MAP sensor from the factory intercooler tube.

Note: Be sure to lubricate the O-rings with grease to prevent them from tearing during install.

55. Install the temp sensor in the fitting that is labeled "T" on the aFe cold side intercooler tube.

56. Install the MAP sensor in the fitting that is labeled "M" on the aFe cold side intercooler tube.

57. Secure both sensors to the aFe cold side intercooler tube, using the factory screws.

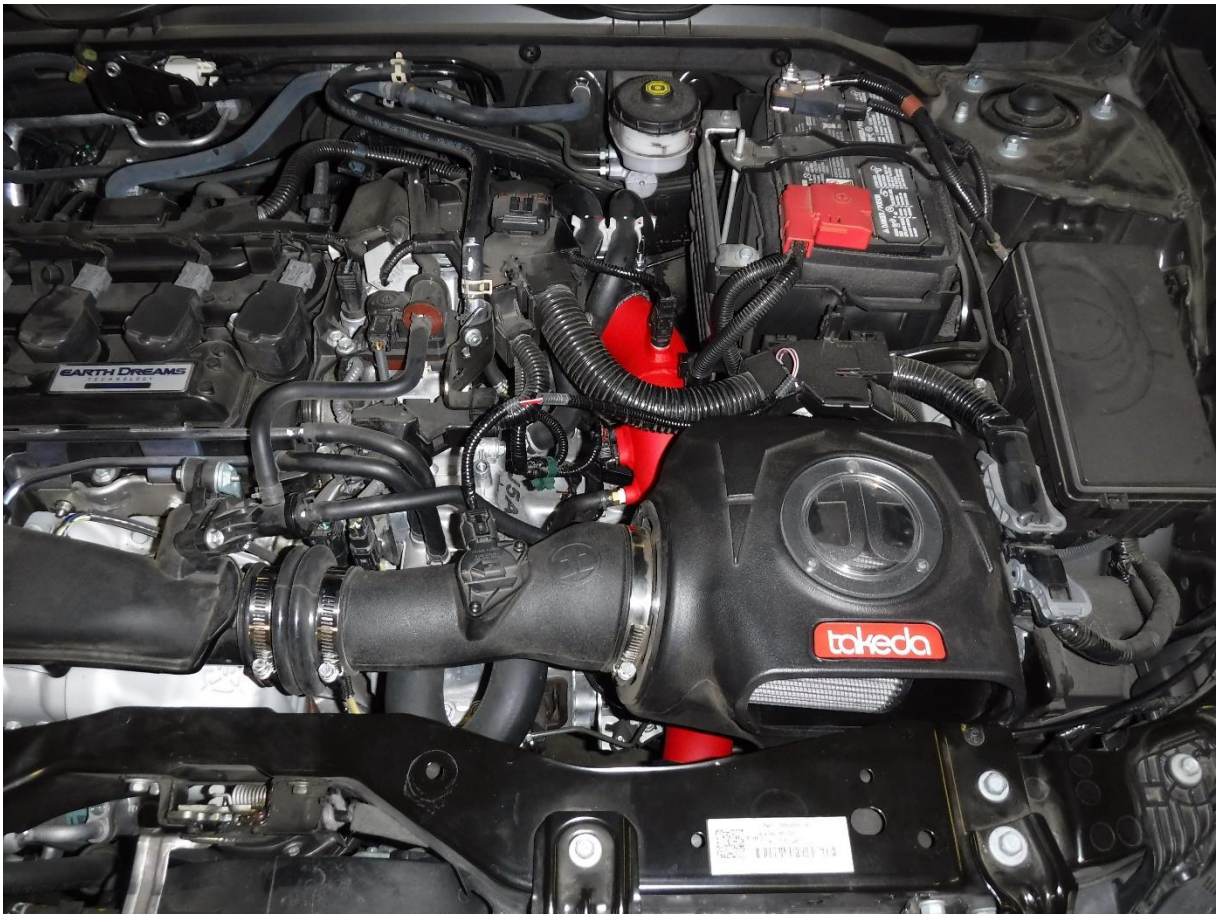
58. Install the supplied 2-1/2" x 45° coupling with one (1) of the supplied 2-7/8" clamps onto the intercooler tube, on the end closer to the fittings.

59. Install the intercooler tube into the vehicle, first connect the lower end to the silicone hose at the bottom with a 2-7/8" clamp, then to the throttle body along with another 2-7/8" clamp.

60. Ensure the tubes are not touching anything then tighten all the clamps.

61. Reconnect the wire harness to the temp sensor and MAP sensor.

62. Reattach the vacuum hose to the barbed fitting on the aFe cold side intercooler tube and secure it with the factory spring clamp.



63. Reinstall the intake system back into the vehicle.
64. Reconnect the MAF sensor on the intake tube.



65. Reinstall the front bumper and connect fog lights if equipped.
66. Reinstall the trim seal and plastic radiator cover.
67. Reconnect the side marker lights and secure them to the vehicle.
68. Reinstall the inner fender liner mounting screws.



69. Reinstall the belly pan.

70. Reconnect the negative battery cable.

Install is now complete!

Note: Be sure to check all connections after 50-100 miles.

Warranty

General Terms:

- aFe warrants their products to be free from manufacturer's defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is nontransferable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization ("RGA"), email RGA@afepower.com or call (951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

Product Category	P/N Prefix	Warranty duration
Direct OE Replacement Filters	10, 11, 30, 31, 71, 73	Life of the vehicle
Racing Filters	18	1 year
Universal	21, 24, 72	2 years
Air Intake Systems	50, 51, 54, 55, 75	2 years
Exhaust Systems	49	2 years
Intercoolers & Intercooler Tubes	46-2	2 years
Intake Manifolds	46-1	2 years
Differential Cover	46-7	Life of the vehicle
Exhaust Manifolds	46	2 years
Throttle Body Spacers	46-3	2 years
Fluid Filters	44	90 days
Pre-Filters	28	2 years
Heavy Duty OE Replacement	70	2 years
PowerSports OE Replacement	81, 87	2 years
PowerSports Intake Systems	85	2 years

No other warranty expressed or implied applies nor is any person or advanced FLOW engineering authorized to assume any other warranty. Some States do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.



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