



advanced FLOW engineering

Cold Air Intake System

Instruction Manual P/N: 51-12152-B /54-12152-B

Make: Dodge	Model: Challenger	Year: 2011-2023	Engine: V6-3.6L
Make: Dodge	Model: Charger	Year: 2011-2023	Engine: V6-3.6L
Make: Chrysler	Model: 300/300S	Year: 2011-2023	Engine: V6-3.6L

NOTE: Excluding Challenger/Charger/300 2020 Engine Test Group LCRXV03.65P3 &
Challenger/Charger/300 2021 Engine Test Group MCRXV03.65P3



- 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.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A1	1	Pro DRY S Air Filter	21-91071
A2	1	Pro 5R Air Filter	24-91071
B	1	Housing	05-12152B2
C	1	Intake Tube	05-12152B1
D	1	Seal, Trim (5.50 inches)	05-00072
E	1	Seal, Trim (25 inches)	05-00072
F	2	Clamp, 052	03-50008
G	1	Coupling, Hump	05-00564
H	2	Isolation Mount	03-50206
I	2	Washer, Flat M6	03-50070
J	1	Nut, Hex	03-50059
K	1	Hose, Silicone (27 inches)	05-01422
L	1	Grommet, Rubber	03-50050
M	1	Screw Hex	03-50032

Warranty Information available at: <https://afepower.com/contact#warranty>

Installation will require the following tools:

8mm Nut Driver, 10mm Nut Driver, 10mm Wrench, Flat Head Screw Driver, Pliers





Refer to Figure A for steps 1-5

Step 1. Remove the engine cover by lifting firmly up ①.

Step 2. Remove the temperature sensor by unclipping the harness ②.

Step 3. Loosen the throttle body clamp ③.

Step 4. Remove the stock housing mount screw. (Save screw it will be re-used with the aFe housing) ④.

Step 5. For 2011 to 2019 vehicles, disconnect the stock vent hose from the housing to the engine ⑤.



REMOVAL

FigureB

Refer to Figure B for step 6

Step 6. For 2020+ vehicles, disconnect the quick disconnect hose next to the throttle body.



Refer to Figure C for steps 7-8

Step 7. Remove stock Intake with housing by pulling on the throttle body side and then lift the housing upwards.

Step 8. Rotate the upper radiator clamp for extra tube clearance. Do not remove hose. (Make sure the engine is cold if the clamp needs to be rotated) (6).



Refer to Figure D for step 9

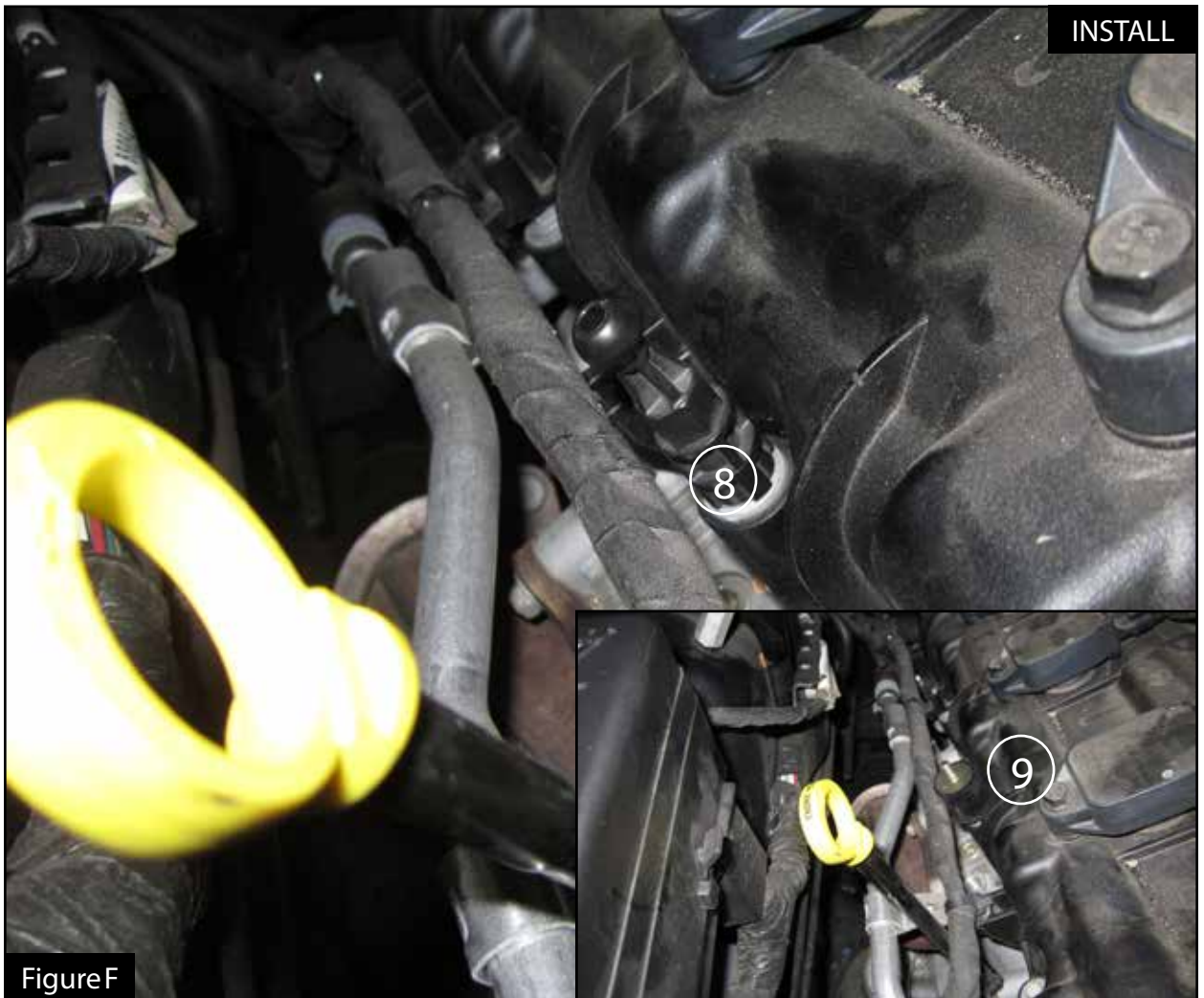
Step 9. Disconnect the factory crankcase hose that runs to the back of the engine, next to the firewall.



Figure E

Refer to Figure E for step 10.

Step 10. Remove the temperature sensor secure clips from the throttle body to give you more slack in the harness (7).



Refer to Figure F for steps 11-12

Step 11. Remove the stock plastic intake plenum mount located on the passenger side of the valve cover (8)

Step 12. Screw the rubber isolation mount where the Plenum mount was located (9).



Refer to Figure G for steps 13-14

Step 13. Remove 10mm fender screw (10).

Step 14. Install aFe Isolation mount male side. Tighten by hand (11).



FigureH

Refer to Figure H for steps 15-17

Step 15. Assemble the aFe housing. Install the trim seal on both top and bottom portion of the housing

As shown on figure (12).

Step 16. Install the aFe filter on housing by sliding one side thru filter hole. Gently sliding filter in the hole until its flat against the housing. The filter should be held in place by it's molded retention lip and groove (12).

Step 17. Transfer the Insolation grommet and sleeve from the stock housing to the new aFe housing (13).



Figure I

Refer to Figure I for steps 18-21

Step 18. Install aFe coupler onto the throttle body, use provided hardware. Tighten throttle body side only (14).

Step 19. Install aFe assembled housing. (Make sure to place any wire harness on top of the lower portion of the housing to avoid chaffing) (15).

Step 20. Use provided hardware to secure the aFe housing to the Fender isolation mount (16).

Step 21. Re-use the stock housing screw to secure the aFe housing (17).



Figure J

Refer to Figure J for steps 22-24

Step 22. Remove Temp sensor from stock intake. (Remove green O-ring from Temp sensor).

Step 23. Install grommet on aFe intake tube ⑱.

Step 24. Insert the Temp sensor that was removed from stock intake tube into the aFe intake tube ⑱.



FigureK

Refer to Figure K for steps 25-27

Step 25. Install aFe intake tube filter side first. Do Not Tighten.

Step 26. Slide aFe intake tube onto throttle body.

Step 27. Use provided hardware to secure intake bracket in place.

Tighten all tube clamps.



Figure L

Refer to Figure L for step 28

Step 28. Install the provided silicone hose between the aFe Power Air intake tube and connection on the back of the engine (disconnected at step 9).



Figure M

Refer to Figure M for steps 29-31

Step 29. Make sure all clamps are tightened.

Step 30. Re- Install Engine Cover.

Step 31. Installation is now complete.

NOTE: Retighten all connections after approximately 100-200 miles.

Place enclosed CARB EO sticker on or near the device on a smooth, clean surface.

EO identification label is required to pass the smog inspection.

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