



advanced FLOW engineering BladeRunner – Coolant Expansion Tank

Instruction Manual P/N: 46-51002

Make: **Dodge**

Model: **Charger**

Year: **2015-2023**

Engine: **V8-6.2L (sc)**

Make: **Dodge**

Model: **Challenger**

Year: **2015-2023**

Engine: **V8-6.2L (sc)**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- For technical support please call 951-493-7185.
- 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.	UoM	Description	Part Number
A	1	Ea.	S/A Expansion Tank: A5-61438	A5-61438
B	1	Ea.	Grommet, Iso Mount: A5-61438	05-61438-8
C	1	Ea.	Nipple, Brass Hose: 5/16ID x 1/8npt	03-50192
D	2	Ea.	Fitting, Push-On Swivel: 90Deg 6mm OD x 1/8" NPT	03-50830
E	4	IN.	Tubing, FEP Clear: 6mm OD, 1mm Wall	05-01781

Installation will require the following tools:

10mm socket, 13mm wrench, hose pliers, pick, teflon tape.

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

Emissions Disclaimer: This product is not currently CARB exempt and is not available for purchase in California or for use on any vehicle registered with the California Department of Motor Vehicles.



A



B



C



D



E



Figure A

Refer to Figure A for Steps 1-5

CAUTION: ALLOW ENGINE TO COOL COMPLETELY PRIOR TO OPENING THE RADIATOR CAP

Step 1: Disconnect the negative battery cable.

Step 2: Lift vehicle using the appropriate lift points. If using floor jacks, place wheel chocks behind rear tires and support the vehicle with jack stands.

Step 3: Remove the belly pan from underneath the vehicle. Place a large drain pan below the supercharger expansion tank to catch the coolant that spills.

Step 4: Pinch the coolant hose clamps and slide the hoses off of the factory supercharger expansion tank (1)

Step 5: Remove the two screws securing the tank to the vehicle (2), then remove the tank from the vehicle.


Figure B

Refer to Figure B for Steps 6-9

Note: Be sure to use thread sealant on the NPT fittings to prevent any leaking

Step 6: Install the supplied 1/8" NPT push-to-connect 90 Degree fittings into the threaded fittings on the aFe POWER supercharger expansion tank (3).

Step 7: Install the supplied FEP clear tubing into the fittings on the aFe POWER supercharger expansion tank from the previous step, (4) be sure they are pressed in firmly.

Step 8: Install the supplied brass barbed NPT fitting into the threads on the aFe POWER filler neck, then transfer the radiator cap and overflow hose onto the fitting (5).

Step 9: Install the supplied Iso Mount Grommet into the slot on the aFe POWER expansion tank (6).



Figure C

Refer to Figure C for Steps 10-15

Step 10: Connect the cooling hoses onto the aFe POWER supercharger expansion tank (7) and secure them with the factory clamps.

Step 11: Secure the aFe POWER supercharger expansion tank to the vehicle (8).

Step 12: Reconnect the negative battery cable.

Step 13: Use the proper coolant refill procedure to be sure that all the air gets out of the system when refilling the coolant.

Step 14: Check for leaks and reinstall the belly pan.

Step 15: Install is now complete.

NOTE: Check all clamps, and connectors are secure after 50-100 miles



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