



advanced FLOW engineering

Instruction Manual P/N: 54-82502 / 51-82502

Make: **Lexus** Model: **GX 470** Year: **2005-2009** Engine: **V8-4.7L**

Make: **Toyota** Model: **4Runner** Year: **2005-2009** Engine: **V8-4.7L**



- 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.
- 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	Part Number
A1	1	Pro DRY S Air Filter	21-90044 (Gray Media)
A2	1	Pro 5R Air Filter	24-91021 (Blue Media)
B	1	Housing	05-00823
C	1	Tube	05-00953
D	1	Cover	05C00823B
E	1	Adaptor	05-00611
F	1	Coupling 3.5" x 2"	05-00307
G	1	Coupling 4" x 2"	05-00421
H	2	Clamp #064	03-50006
I	2	Clamp #056	03-50009
J	1	Clamp #012	03-50023
K	1	Vent Hose	03-50198
L	9	M6 Screws	03-50113
M	2	M4 Screws	03-50030
N	2	Spacers	03-50089
O	1	Gasket	05-00631
P	1	Isolation Mount	03-50063
Q	1	M8 Nut	03-50087
R	3	Wave Washer	03-50058
S	1	Flat Washer	03-50065
T	1	Brass Hose Fitting	03-50191
U	1	5/8" Hose - 13"	05-00069
V	1	5/32" Hose - 30"	05-00122
W	1	Plug	05-00937

Tools needed: 88mm Nut Driver, 10mm Socket Wrench, 12mm Socket Wrench, 13mm Socket Wrench, Flat Head Screw Driver, 5/32" Hex Key Allen Wrench

Note: Not legal for use in California. The use of this device in any on-road or off-road vehicles registered with the California Dept of Motor Vehicles (DMV) is strictly prohibited.



**Figure A****Refer to Figure A for Steps 1-5**

- Step 1. Remove both intake & engine covers
- Step 2. Loosen both clamps on the OE intake tube.
- Step 3. Disconnect crankcase and vacuum line from tube.
- Step 4. Disconnect the MAF sensor harness.
- Step 5. Remove intake tube and top of air box.



Figure B

Refer to Figure B for Steps 6-7

Step 6. With 12mm socket and extension, loosen the 3 bolts and remove lower portion of the stock air box out of vehicle. Note: Save 3 bolts and grommets for later install.

Step 7. Remove and save two OE rubber grommets & spacers that held the stock air box. it is eaiser to remove metal inserts before removing grommets.



Refer to Figure C for Step 8

Step 8. Relocate ground wire from the side fender to the fender wheel well.



Figure D

Refer to Figure D for Steps 8-9

Step 8. Assemble the Vacuum lines and tee as shown on left. The larger 5/8" vent house attaches to the valve cover vent using the small hose clamp.

Note: Please see Picture above for visual reference.

Step 9. Install provided isolation mount were factory housing was removed. As shown on right.

**Figure E****Refer to Figure E for Steps 10-12**

Step 10. Transfer the two OE rubber grommets and spacers that held in the air box from step 6, place onto the aFe housing with metal spacers.

Step 11. Place the adaptor into the aFe housing, Use M6 screws and tighten with 5/32" hex Key.

Step 12. Install the coupling with clamps. Tighten only the adaptor side.



Figure F

Refer to Figure F for Steps 13-15

Step 13. Remove MAF sensor from the stock housing.

Step 14. Re-install MAF sensor onto the aFe intake tube with the provided gasket, spacers and screws.

Install the gasket and nylon spacers between tube and sensor.

Step 15. Install brass hose fitting.



Figure G

Refer to Figure G for Steps 16-18

Step 16. Remove the passenger side engine cover support bracket.

Step 17. Place the support bracket in a vice. Carefully bend upwards ½”.

Step 18. Re-install the passenger engine cover support bracket.

NOTE: This will give engine cover clearance for the intake tube.



Figure H

Refer to Figure H for Steps 19-20

Step 19. Install housing into vehicle using the 2 stock bolts from step 6. Use M8 nut and washer to secure the ISO mount.

Step 20. Install the aFe coupling onto the throttle body using provided clamps.

Note: tighten the throttle body clamp side only.

**Figure I****Refer to Figure I for Steps 21-22**

Step 21. Install the aFe Filter. Note: Insert filter into the aFe housing at slight angle.

Step 22. Place the aFe cover onto the housing using the provided screws.

Tighten using a 5/32" hex key.



Figure J



Figure J2

Refer to Figure J for Steps 23-27

Step 23. Install the aFe intake tube.

Step 24. Connect the vacuum lines.

Step 25. Re-connect the MAF sensor harness.

Step 26. Tighten all clamps.

Step 27. Re-install engine cover (Figure J2). Installation is now complete.

NOTE: The original intake cover panel will not be reused.



Pro 5R Air Filter



P/N: 24-91021

Pro DRY S Air Filter



P/N: 21-90044

Blue Aerosol Restore Kit



P/N: 90-50001

Pro DRY S Restore Kit



P/N: 90-59999

Blue Squeeze Restore Kit



P/N: 90-50501

aFe Power Hat



P/N: 40-10083

Exhaust



P/N: 49-46016

Pre-Filter



P/N: 28-10093

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"). 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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