



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

# INSTALLATION INSTRUCTIONS

## PART NUMBER

### 21-820DS

---

2016-17

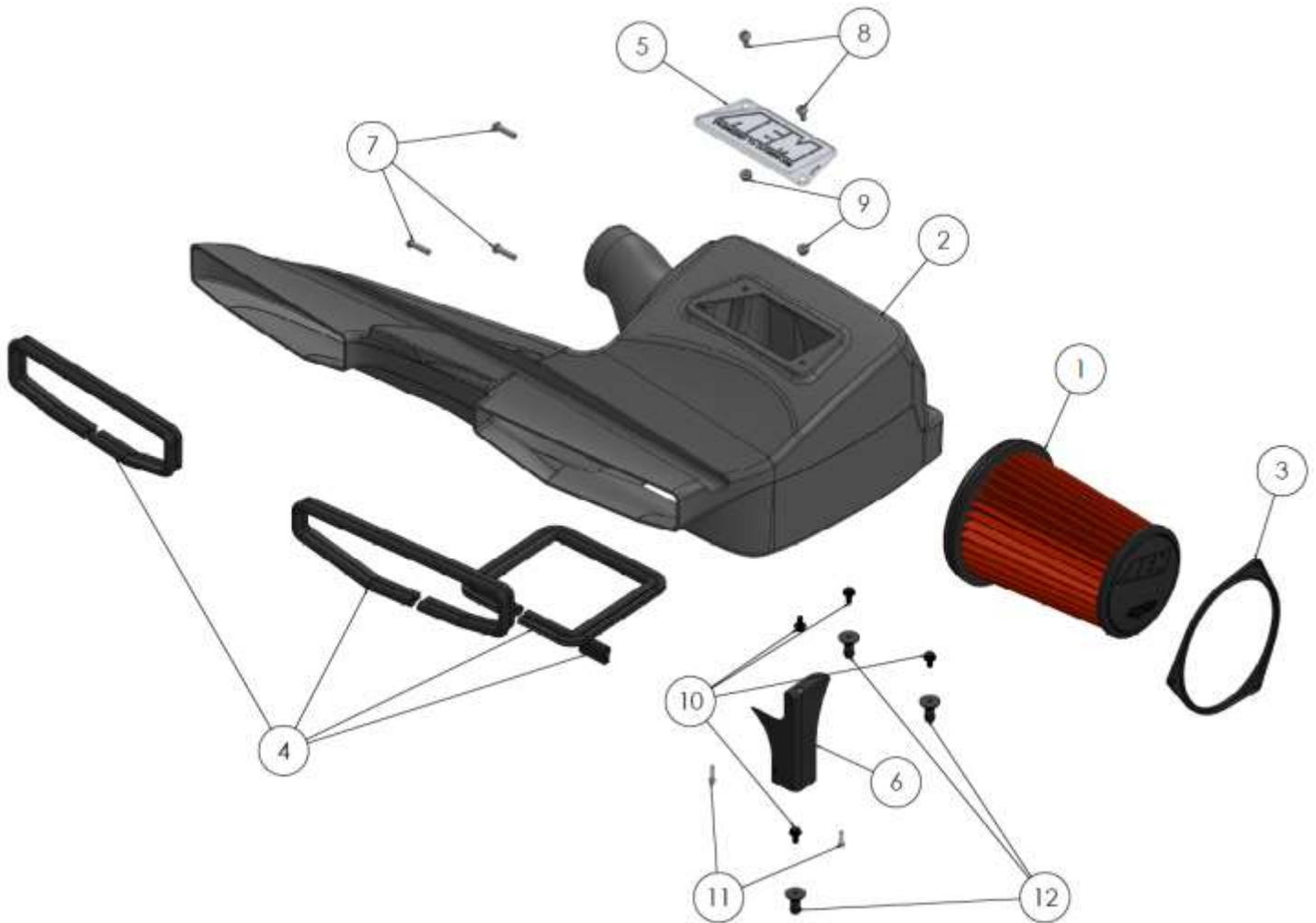
INFINITI

QX30

2.0T

Not legal for sale or use on any pollution controlled motor vehicle in California or states adopting California emission procedures. See [AEMIntakes.com](http://AEMIntakes.com) for CARB status on each part for a specific vehicle.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	21-1015DK	6-3/8" OD B, 5-3/16" OD T; 8-7/8" H	1
2	9-0447	AIRBOX; 2017 INFINITI QX30	1
3	7-349	RING; AXIAL FILTER RETAINER; 3 HOLE, STAMP STEEL	1
4	102460	EDGE TRIM; 3/4" BULB, TOP LOC, 75"L	1
5	8-211	PLATE; AEM LOGO, CLEAR, 6.2" X 2.4" X .25"	1
6	7-347	BRACKET; STANDOFF MOUNT, 5" X 1.25" X 2.6", TB/PC	1
7	07729	BOLT; M6-1.00 X 25MM BUTTONHEAD, SS	3
8	07730	BOLT; M6 X 1.00 X 16MM , BUTTONHEAD, SS	2
9	444.460.04	NUT; M6 HEX SERRATED	2
10	1-2110	BOLT; HEX/FLANGE M6-1.0 X 12	4
11	1-2097	BOLT; SOCKET M4-.7 X 16MM	2
12	8-186-1	MOUNT, PLASTIC AIRBOX, NYLON	3



Read and understand these instructions **BEFORE** attempting to install this product. Failure to follow installation instructions and not using the provided hardware may damage the intake tube, throttle body and engine. If you need any assistance please call 1-800-858-3333 to speak with a representative in our Customer Service Center before returning the product.

## 1. Preparing Vehicle

- a. Make sure vehicle is parked on level surface.
- b. Set the parking brake.
- c. If engine has run in the past two hours, let it cool down.
- d. Disconnect negative battery terminal.
- e. Do not discard stock components after removal of the factory system.
- f. Open the air intake kit package and make sure all parts are included.

Tools Needed:	Optional:
10mm Socket	Flat-head Screwdriver
Ratchet	
12mm Open Wrench	Small Torque Wrench
7mm Socket Driver	Side Cutters
4mm, 3mm Hex Key	

## 2. Removal of stock system



a. Carefully pull up on engine cover and remove it from the engine bay.



b. Use a 7mm socket driver to loosen the turbo inlet hose clamp. Separate the turbo inlet hose from the air box outlet.



c. Use a flat-head screwdriver to separate the intake duct from the air scoop.



d. Pull on the [2] latches to release the [2] ECU harness connectors.



e. Release the [2] clips and pull the ECU from the stock air box. Carefully set this aside.



f. Unclip the ECU harness from the [4] locations shown and move it aside.



g. Pull the stock air intake system from the vehicle. Make sure the [3] grommets are still seated in the engine bay and not stuck to the air box. Do not discard any factory components.

### 3. Installation of AEM® intake system.

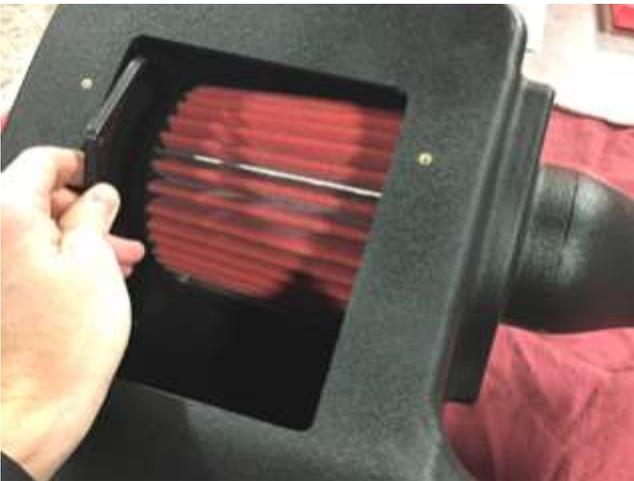
- a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.



a. Install the [2] stud mounts to the AEM air box. Apply edge trim to the inlet scoops. Trim to fit.



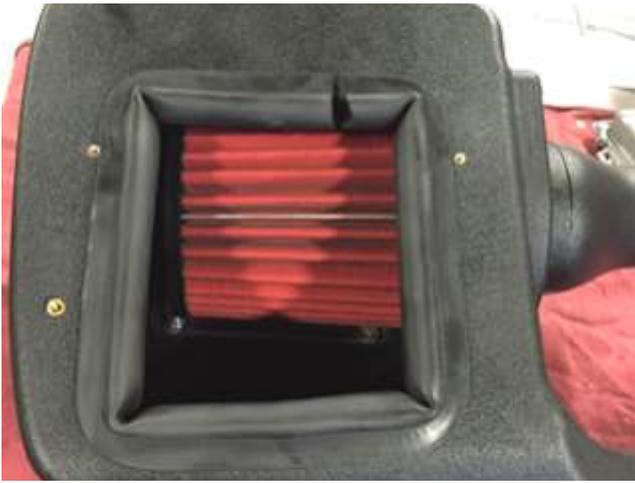
b. Install the AEM logo plate with the [2] M6 X 16mm button-head bolts and nuts.



c. Insert the AEM filter with the retaining bracket into the air box as shown.



d. Align the threaded holes in the retaining bracket to the holes in the air box. Fasten with the [3] M6 X 25mm bolts until about 1/2" of the bolt protrudes from the retaining bracket.



e. Apply edge trim to the opening on the underside of the air box. Trim to fit.



f. Assemble the air box mounting bracket as shown. Install the stud mount and apply remaining edge trim (trim if necessary).



g. Mount the ECU to the underside of the air box as shown. Use the [2] M4 X 16mm socket-head bolts to fasten.



h. Fasten the assembled mounting bracket over the ECU and onto the underside of the air box.



i. Disconnect the connector shown by pulling on the small grey tab. Then cut the zip tie holding the ECU harness to the main fuse box. Take care not to cut any wiring.



j. Route the ECU harness underneath the main fuse box harness and hood release cable (as shown above). Re-connect the connector disconnected in the previous step.



k. Place the AEM intake system into the engine bay. Reconnect the [2] ECU harness connectors. Make sure the ECU connector latches are fully locked down.



m. Slide the turbo inlet hose onto the air box outlet and tighten the hose clamp.



l. Rotate the intake assembly and lower it into its proper position. Push down to make sure the [3] stud mounts seat fully into the [3] grommets in the engine bay.



n. Adjust the air box so that the two inlet scoops seal properly onto the two air scoops on the vehicle. Finally, replace the engine cover.



STOCK INTAKE INSTALLED



AEM INTAKE INSTALLED

#### 4. Reassemble Vehicle

- a. Position all kit components for best fitment. Ensure that no components contact any unintended part of the vehicle.
- b. Check for proper hood clearance. Re-adjust components if necessary and re-tighten them.
- c. Inspect the engine bay for any loose tools and ensure that all fasteners that were moved or removed are properly tightened.
- d. Reconnect negative battery terminal and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

#### 5. Service and Maintenance

- a. AEM Induction Systems requires cleaning the intake system's air filter element every 100,000 miles. When used in dusty or off-road environments, our filters will require cleaning more often. We recommend that you visually inspect your filter once every 25,000 miles to determine if the screen is still visible. When the screen is no longer visible some place on the filter element, it is time to clean it. To clean, purchase our Synthetic air filter cleaner, part number 1-1000 and follow the easy instructions.
- b. Use window cleaner to clean your powder coated AEM<sup>®</sup> intake tube.

**NOTE: DO NOT USE aluminum polish on powder coated AEM<sup>®</sup> intake tubes.**

For technical inquiries  
e-mail us at  
[sales@aemintakes.com](mailto:sales@aemintakes.com)  
or  
call us at  
800.992.3000

## **AEM Air Intake System Warranty Policy**

AEM® warrants that its intake systems will last for the life of your vehicle. AEM® will not honor this warranty due to mechanical damage (i.e. improper installation or fitment), damage from misuse, accidents or flying debris. AEM® will not warrant its powder coating if the finish has been cleaned with a hydrocarbon-based solvent. The powder coating should only be cleaned with a mild soap and water solution. Proof of purchase of both the vehicle and AEM® intake system is required for redemption of a warranty claim.

This warranty is limited to the repair or replacement of the AEM® part. In no event shall this warranty exceed the original purchase price of the AEM® part nor shall AEM® be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM® must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is nontransferable. Improper use or installation, use for racing, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM® disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM®. Warranty returns will only be accepted by AEM® when accompanied by a valid Return Merchandise Authorization (RMA) number. Credit for defective products will be issued pending inspection. Product must be received by AEM® within 30 days of the date RMA is issued.

If you have a warranty issue, please call (800) 992-3000 and our customer service department will assist you. A proof of purchase is required for all AEM® warranty claims.

**Not legal for sale or use on any pollution controlled motor vehicle in California or states adopting California emission procedures. See [AEMIntakes.com](http://AEMIntakes.com) for CARB status on each part for a specific vehicle.**