



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

# **INSTALLATION INSTRUCTIONS**

## **PART NUMBER**

### **21-823DS (GUN METAL GRAY FINISH)**

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2014-17

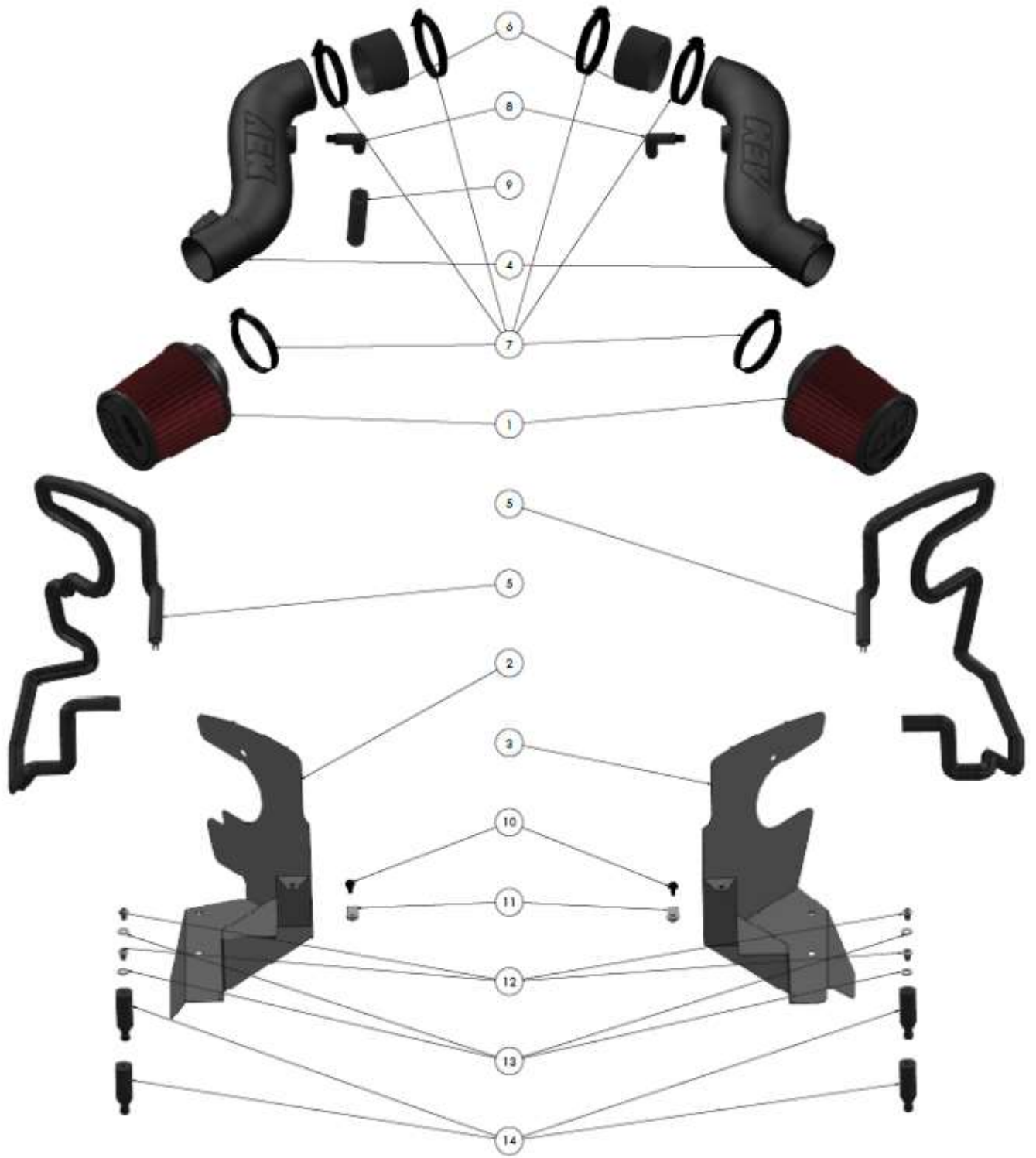
INFINITI

Q70

3.7L

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| ITEM NO. | PART NUMBER | DESCRIPTION                                    | QTY. |
|----------|-------------|--|------|
| 1        | 21-202DOSK  | AIR FILTER; OFFSET 2.75" X 5" DRYFLOW          | 2    |
| 2        | 20-8600     | HEAT SHIELD; PS; 2016 INFINITI Q70, TB/PC      | 1    |
| 3        | 20-8599     | HEAT SHIELD; DS, 2016 INFINITI Q70, TB/PC      | 1    |
| 4        | 9-0451      | TUBE; 2015 INFINITI Q50, 3.7L V6               | 2    |
| 5        | 102492      | EDGE TRIM; 3/4" BULB, TOP LOC, 61"L            | 2    |
| 6        | 5-272       | HOSE, SILICONE 2.75X2" BLACK                   | 2    |
| 7        | 08577K      | HOSE CLAMP; #44, BLACK ZINC PLATED             | 6    |
| 8        | EL1458P     | ELBOW; PLASTIC , 90 DEG, 1/4" NPT TO 5/8" BARB | 2    |
| 9        | 08538       | HOSE; 5/8" ID X 5" L                           | 1    |
| 10       | 1-2110      | BOLT; HEX/FLANGE M6-1.0 X 12                   | 2    |
| 11       | 07567       | NUT; 6MM-1.0, CLIP                             | 2    |
| 12       | 1-2046      | BOLT; BTN HD M8-1.25 X 10MM                    | 4    |
| 13       | 1-3020      | WASHER; .625 OD X .344 ID X .060 L             | 4    |
| 14       | 06532       | STANDOFF; 6.0 FORD AIRBOX                      | 4    |



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:           |
|---------------|---------------------|
| Screwdriver   | Small Torque Wrench |
| 10mm Socket   |                     |
| Ratchet       |                     |
| Pliers        |                     |
| 5mm Hex Key   |                     |

## 2. Removal of stock system



a. Use a small flat head screwdriver to remove the [8] clips holding the radiator shroud. Remove the shroud.



b. Use a 10mm socket and ratchet to remove the [2] nuts and [3] bolts holding the engine cover. Remove the cover.



c. Unplug the Mass Air Flow (MAF) sensor harness and unclip it from the air box. Repeat for other side.



d. Remove the M6 bolt in the location shown above.



e. Remove the [2] M6 bolts in the locations shown above.



f. Use pliers to release the spring clamp shown above (driver side pictured).



g. Use pliers to release the spring clamp shown above (passenger side pictured).



h. Loosen both throttle body hose clamps and the pull both intake tubes and air boxes from the engine bay. Make sure the [4] grommets are still seated in the frame rails.



i. Remove the MAF sensor from the intake tube. Repeat for other intake tube.



j. Pull the breather hose from the intake tube (driver side pictured).



k. Remove the [2] spring clamps from the breather hose (passenger side pictured). Do not discard any factory components or hardware removed thus far.

### 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 MAF sensors into both AEM intake tubes.



b. Install the plastic 90° fittings into the intake tubes as shown. Do not overtighten. Thread sealant is not required. Install the supplied 5/8" x 5" hose with the [2] factory spring clamps onto one tube. Install the factory breather hose (removed in step 2j) onto the other tube. Orient the hoses as shown.



c. Install the [2] couplers along with [4] hose clamps onto the throttle bodies as shown. Tighten the hose clamps on the throttle body side at this time.



d. Install the [2] clip nuts onto the upper core support in the locations shown above.



e. Apply the supplied edge trims to the heat shields as shown above. Trim if needed.



f. Install the post mounts to the bottom of the heat shields.



g. Install the intake tube with heat shield into the vehicle. Insert the intake tube into the coupler. Install the breather hose onto its respective port. Then fully seat the post mounts on the heat shield into the grommets on the frame rails.



h. Repeat for driver side.



i. Secure the front of the heat shield with the supplied M6 bolt. Repeat for other side.



j. Reposition the spring clamp onto the breather hose (driver side pictured).





k. Repeat for driver side.



l. Install the AEM filters. Orient them for best fit. Then tighten the hose clamps on the throttle body couplers to fully secure the intake tubes.



m. Route the MAF harness above the intake tube and clip it into the provision on the heat shield. Repeat for other side.



n. Reinstall the radiator shroud and 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.

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