



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

# **INSTALLATION INSTRUCTIONS**

## **PART NUMBER**

### **21-742C (Gun Metal Grey Finish)**

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2014

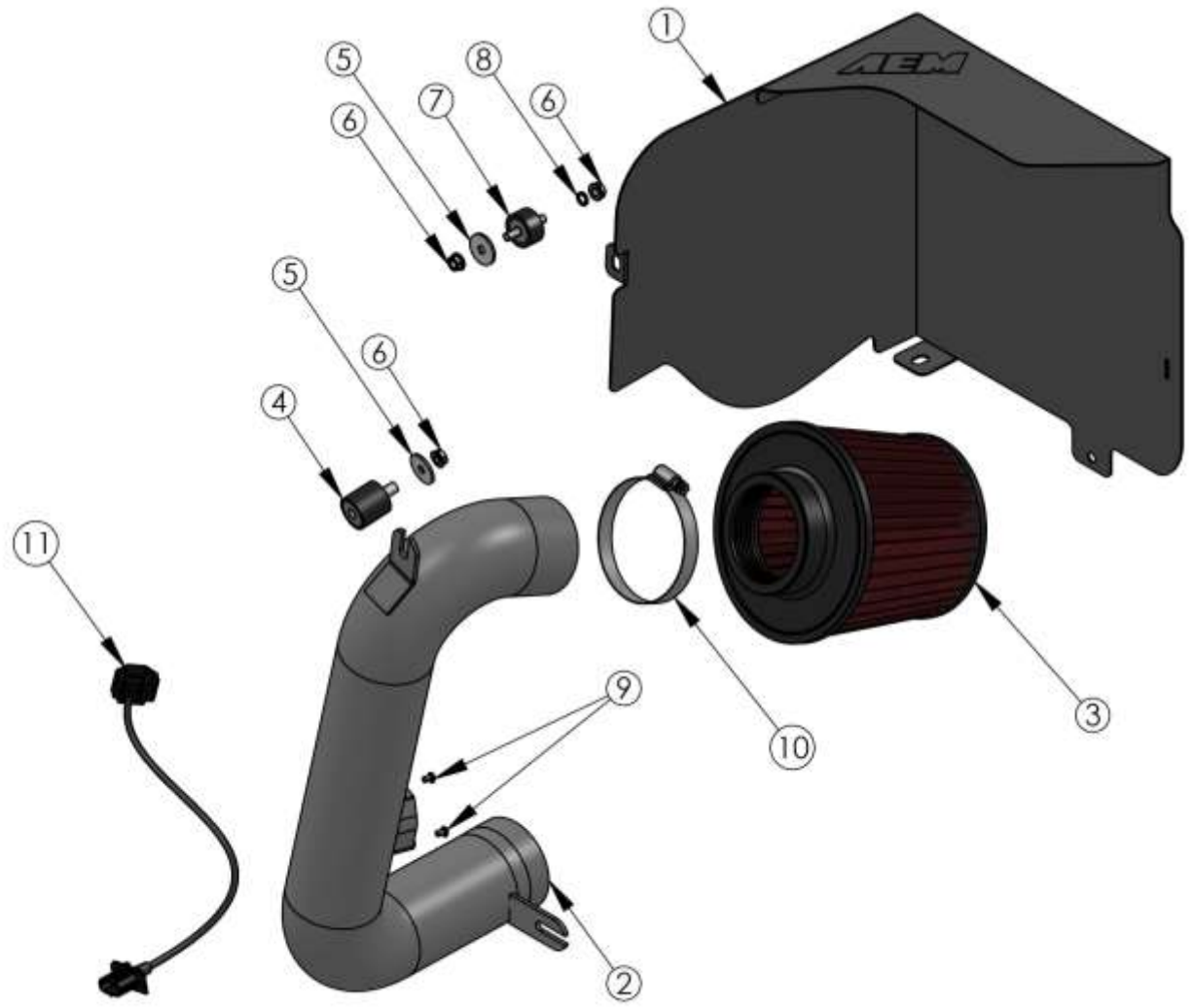
Subaru

Forester XT

H4-2.0L Turbo

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	20-8541	HEAT SHIELD, 2014 SUBARU FORESTER XT 2.0T	1
2	2-1487	INTAKE TUBE; 2014 SUBARU FORESTER XT 2.0T	1
3	AEM-21-202DK	AIR FILTER; 2.75" X 5" DRYFLOW	1
4	AEM-1228596	MOUNT, RUBBER M6 X 3/4" TALL M/F	1
5	08160	WASHER; 1"D X 1/4 HOLE FENDER	2
6	AEM-444.460.04	NUT, M6 HEX SERRATED	3
7	07027	STUD; M6-1.00M/M, RUBBER MNTD	1
8	AEM-1-3025	WASHER, M6 SPLIT LOCK ZINC	1
9	AEM-1-2051	BOLT, BTN HD M4-0.7 X 6MM	2
10	AEM-9448	1/2" BNDHOSE CLAMP, 2.56"-3.50"	1
11	AEM-8-197-1	EXTENSION HARNESS; 5 PIN 18" DENSO	1



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.

**Tools Needed:**

Screw driver  
10MM socket  
Socket Driver  
Side Cutters  
4MM Hex Key

**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.

**2. Removal of stock system**



a. Remove the two plastic clips and the factory fresh air inlet duct.



b. Depress the tab on the mass air flow sensor plug and disconnect it from the MAF sensor.



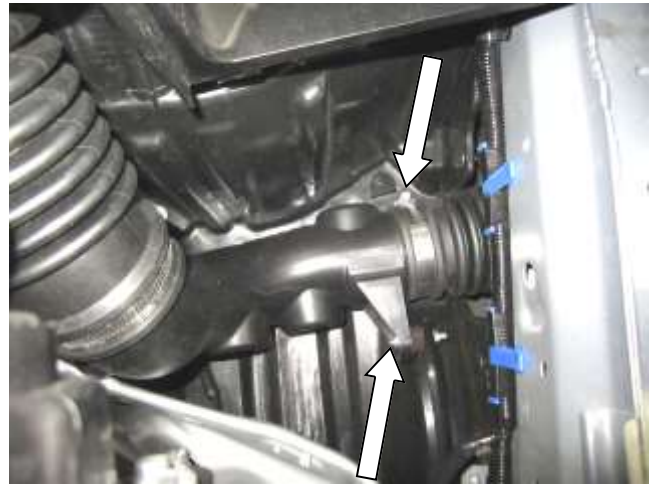
c. Remove the two nuts on the fender that secure the bracket for the air box.



d. Remove the bolt that secures the air box to the engine bay and set aside for late use with AEM heat shield.



e. Unlatch and carefully remove the stock air box lid and filter from the engine bay.



f. Loosen the hose clamp and M6 nut shown. Set stock nut aside for use later with AEM intake tube.



g. Slide the intake tube off the lower bellow coupler and remove tube/box assembly from engine bay.



h. Remove MAF sensor from stock air box and set aside for installation on AEM intake tube.



i. Remove the M6 ground bolt located on the lower frame rail and set aside for use with AEM heat shield.

### 3. Installation of AEM<sup>®</sup> 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 mass air flow sensor that was removed in 2h) into the AEM intake tube with the supplied hardware (1-2051) using 4MM Hex Key.



b. Install the supplied rubber mount(07027) onto the fender frame and fasten from behind using the supplied washer(08160) and nut(444.460.04).



c. Install the rubber mount(1228596) onto the location shown.



d. Install the AEM tube into the stock lower bellow coupler. Align the lower bracket to the stock rubber mount and fasten with the original nut from step 2f. Fasten upper bracket to the rubber mount installed in step 3c using the washer(08160) and nut(444.460.04) provided. Check for clearance around tube and fasten the stock hose clamp to secure the bellow coupler to the tube.



e. Connect the extension harness(8-197-1) to the stock harness, around the tube, and plug into the MAF sensor.



f. Place filter and hose clamp near the AEM tube as shown and set heat shield(20-8541) into place.



g. Secure the heat shield to frame using the M6 bolt from step 2d.



h. Install the M6 bolt from step 2i onto the lower mounting tab along with the ground wire as shown.



i. Fasten the outer bent tab to the rubber mount using the split washer(1-3025) and nut(444.460.04) provided.



j. Carefully slide air filter onto the AEM tube. Check for clearance around the filter and fasten hose clamp(9448).



k. AEM intake system installed.

#### 4. Reassemble Vehicle

- a. Position the inlet pipes for the best fitment. Be sure that the pipes or any other components do not contact any part of the vehicle.
- b. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- c. Inspect the engine bay for any loose tools and check 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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