



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER:

22-685C (Gun Metal Grey Finish)

2011	Kia	Optima	L4-2.4L	Exclude Test Group	BKMXV02.4FPC	C.A.R.B. E.O. # D-670-20
2012	Kia	Optima	L4-2.4L	Exclude Test Group	CKMXV02.4FPC	C.A.R.B. E.O. # D-670-20
2013	Kia	Optima	L4-2.4L	Exclude Test Group	DKMXV02.45GP	C.A.R.B. E.O. # D-670-20
2014	Kia	Optima	L4-2.4L	Exclude Test Group	EKMXV02.45HP	C.A.R.B. E.O. # D-670-20
2015	Kia	Optima	L4-2.4L			
2011	Hyundai	Sonata	L4-2.4L	Exclude Test Group	BHYXV02.4YPC	C.A.R.B. E.O. # D-670-20
2012	Hyundai	Sonata	L4-2.4L	Exclude Test Group	CHYV02.4YPC	C.A.R.B. E.O. # D-670-20
2013	Hyundai	Sonata	L4-2.4L	Exclude Test Group	DHYXV02.42GP	C.A.R.B. E.O. # D-670-20
2014	Hyundai	Sonata	L4-2.4L	Exclude Test Group	EHYXV02.42JP	C.A.R.B. E.O. # D-670-20

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	28-20448	KIA AIR FILTER 2.4L L4 & 3.5L V6; 2010	1
2	9444	HOSE CLAMP, 2.31-3.25"	2
3	087121	HOSE; 3" ID X 2-1/2" L HUMP REINFORCED	1
4	2-1472	Intake Tube; 22-685 Optima/Sonata 2.4L	1
5	08032	PLUG; 1/4 NPT, PLASTIC, BLACK	1
6	08047	VENT; STRT 1/2" HOSE, 1/4"NPT, PLAS	1
7	9448	1/2" BNDHOSE CLAMP,2.56"-3.50"	2
8	5-300	HOSE; 3.00 X 3" BLK	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
Pliers

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 engine cover by pulling up and out of the vehicle. Remove the two bolts holding the air scoop to the vehicle and remove the scoop.



b. Loosen the hose clamp at the throttle body.



c. Loosen the hose clamp at the air box.



d. Release the spring clamp and slide it down the tube on the #1 vent line. On vehicles equipped with a vent line, disconnect the #2 vent line in the same manner.



e. Remove the stock intake tube and unlatch the 4 clips on the upper air box. **Note:** Do not discard any of your stock equipment.



f. Remove the stock air filter by pulling it out of the lower air box.

3. Installation of AEM® intake system.

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



a. Install the AEM filter into the lower air box.



b. Re-install the upper air box cover and re-latch the 4 clips that were unlatched in step 2e.



c. Install the hump hose (5-1081) onto the throttle body with the two provided hose clamps (9444).



e. Install the correct fitting based on your vehicle application. On vehicles equipped with a vent line use the fitting. On vehicles not equipped, use the plug.



g. Tighten both hose clamps at the throttle body.



d. Install the coupler (5-1089) onto the air box lid with the two provided hose clamps (9448).



f. Install the assembled tube into the couplers making sure correct tube orientation is achieved.



h. Tighten both hose clamps at the air box lid.



i. Re-attach the valve cover breather line as well as the vent line (if applicable) and secure with the factory spring clamps.



j. Re-install the air scoop, the engine cover, and the 2 bolts that were removed in 2a. Tighten both bolts.



Stock Intake Installed.



AEM Intake Installed.

4. Reassemble Vehicle

- a. Position the inlet pipe for the best fitment. Be sure that the pipe or any other components do not contact any part of the vehicle.
- b. Check for proper hood clearance. Re-adjust pipe 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 99-0624 and follow the easy instructions.
- b. Use window cleaner to clean your powder coated AEM[®] intake tube.

NOTE: DO NOT USE aluminum polish on powder coated AEM[®] intake tubes.

For technical inquiries
e-mail us at
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.