INTAKE SYSTEM

INSTALLATION INSTRUCTIONS

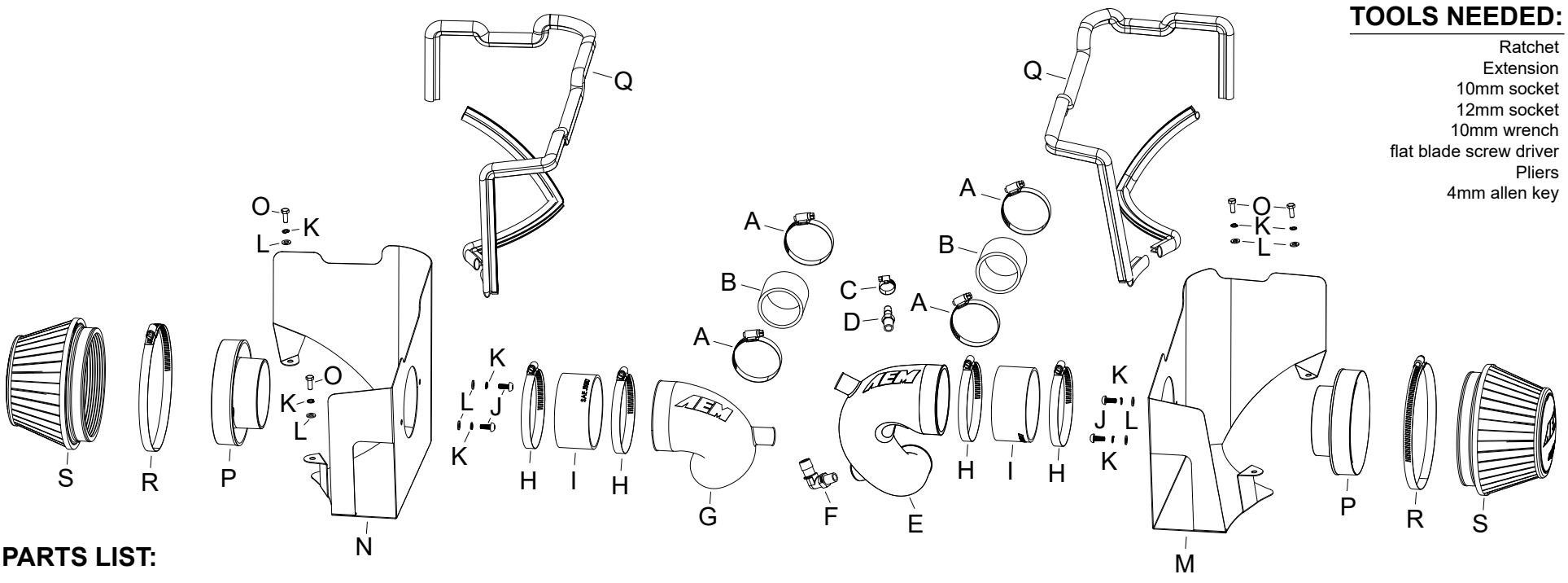
21-849DS
KIA
2018-22 Stinger
V6-3.3L Twin Turbo

NOT LEGAL FOR SALE OR USE ON ANY POLLUTION CONTROLLED MOTOR VEHICLE IN CALIFORNIA OR STATES ADOPTING CALIFORNIA EMISSION PROCEDURES.

See aemintakes.com for CARB status on each part for a specific vehicle

TOOLS NEEDED:

Ratchet
Extension
10mm socket
12mm socket
10mm wrench
flat blade screw driver
Pliers
4mm allen key



PARTS LIST:

	Description	Qty.	Part #		Description	Qty.	Part #		Description	Qty.	Part #
A	HOSE CLAMP #36	4	08530	G	INTAKE TUBE PS	1	9-0461	M	HEAT SHIELD	1	20-8633
B	HOSE, SILICONE 2.25X2"	2	5-222N	H	HOSE CLAMP #64 STAINLESS	4	08645	N	HEAT SHIELD	1	20-8634
C	HOSE CLAMP #6 MINI	1	08407	I	HOSE; 4"ID X 2"L REINFORCED	2	08761	O	BOLT; M6-1 X 16MM	4	07812
D	VENT, STRT, 1/4"NPT	1	08047	J	BOLT; M6 X 1 X 16MM	4	07730	P	ADAPTOR; #454	2	27300
E	INTAKE TUBE DS	1	9-0459	K	WASHER, M6 SPLIT LOCK ZINC	8	1-3025	Q	EDGE TRIM 55"	2	102480A
F	FITTING; VENT 1/4NPT, 90DEG	1	08525	L	WASHER; 6MM FLAT	8	08269	R	1/2" BNDHOSE CLAMP, 4.125	2	94104
								S	AIR FILTER	2	21-2093DK

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.

Read and understand these instructions <u>BEFORE</u> 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.

TO START:

1. Turn off the ignition and disconnect the negative battery cable.
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied with your owner's manual. In the event your vehicles anti-theft code cannot be recovered, contact an authorized dealership to obtain your vehicles anti-theft code.

2. Remove the four bolts shown that secure the two strut tower braces to the vehicle and then remove the braces from the vehicle.
NOTE: These braces and bolts will be reinstalled later.

3. Release the spring clamps that secure the two vent lines attached to the driver's side intake tube, then remove the vent lines from the intake tube.
NOTE: one of the vent lines is on the bottom section of the tube.

4. Release the spring clamps that secure the driver side BOV hose to the BOV and intake tube, then remove the driver side BOV hose.
NOTE: This hose will be reused.

5. Loosen the hose clamps that secure the intake tube to the air filter housing and turbo inlet and then remove the intake tube from the vehicle.

6. Remove the three bolts that secure the driver side air filter housing to the inner fender, loosen the hose clamp that secures the intake tube to the air filter housing and disconnect the tube. Remove the driver side air housing from the vehicle.

7. Release the spring clamps that secure the passenger side BOV hose to the BOV and intake tube, then remove the Passenger side BOV hose.
NOTE: This hose will be reused.

8. Remove the three bolts that secure the passenger side air filter housing to the inner fender, loosen the hose clamp that secures the intake tube to the air filter housing and disconnect the tube. Remove the passenger side air housing from the vehicle.
NOTE: AEM recommends that customers do not discard factory air intake.

9. Loosen the hose clamp that secures the intake tube to the passenger side turbo and then remove the intake tube from the vehicle.

10. Install the provided couplers (5-222N & 08761) onto the Drivers side intake tube (9-0459) and then install the 90° and straight vent fittings as shown.
NOTE: Plastic NPT fittings are easy to cross thread. Install the vent fitting "hand" tight, then turn it two complete turns with a wrench.

11. Trim and install the edge trim 35", 16" and 2-1/2" onto the driver's side heat shield (20-8633) as shown.

12. Install the driver's side heat shield assembly into the vehicle and secure with the provided hardware. Then install the intake tube assembly onto the turbo inlet.

13. Install the provided filter adapter into the heat shield so that it goes through the heat shield and into the coupler on the intake tube. Secure the adapter to the heat shield using the provided hardware and then adjust the intake tube and couplers for best fit and secure with the provided hose clamps. Connect the vent lines to the fittings in the intake tube and install the factory passenger BOV hose and secure with the factory clamps.

14. Trim and install the edge trim 35", 16" and 2-1/2" onto the passenger side heat shield (20-8634) as shown.

15. Install the provided coupler hoses (5-222N and 08761) onto the Passenger side intake tube (9-0461) and secure with the provided hose clamps.

16. Install the passenger side intake tube onto the turbo inlet.

17. Install the passenger side heat shield and secure with the provided hardware.

18. Install the provided filter adapter into the heat shield so that it goes through the heat shield and into the coupler on the intake tube. Secure the adapter to the heat shield using the provided hardware and then adjust the intake tube and couplers for best fit and secure with the provided hose clamps.

19. Install the driver's side BOV hose and secure with the factory hose clamps.
NOTE: Some trimming of the BOV hose may be necessary to avoid kinks in the hose.

20. Install the provided AEM® air filters onto the filter adapters and secure with the provided hose clamps.

21. Reinstall both strut tower braces and secure with the factory hardware.

Reassemble Vehicle

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. Tighten the rubber mount, all bolts, and hose clamps. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened. Reconnect negative battery terminal and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

Service and Maintenance

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 AEM-1-1000 and follow the easy instructions. Use window cleaner to clean your powder coated AEM® intake tube.
NOTE: DO NOT USE aluminum polish on powder coated AEM® intake tubes.

NOT LEGAL FOR SALE OR USE ON ANY POLLUTION CONTROLLED MOTOR VEHICLE IN CALIFORNIA OR STATES ADOPTING CALIFORNIA EMISSION PROCEDURES.

See aemintakes.com for CARB status on each part for a specific vehicle

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.