



INSTALLATION INSTRUCTIONS
PART NUMBER
26-3002C (Gun Metal Gray Finish)

2016

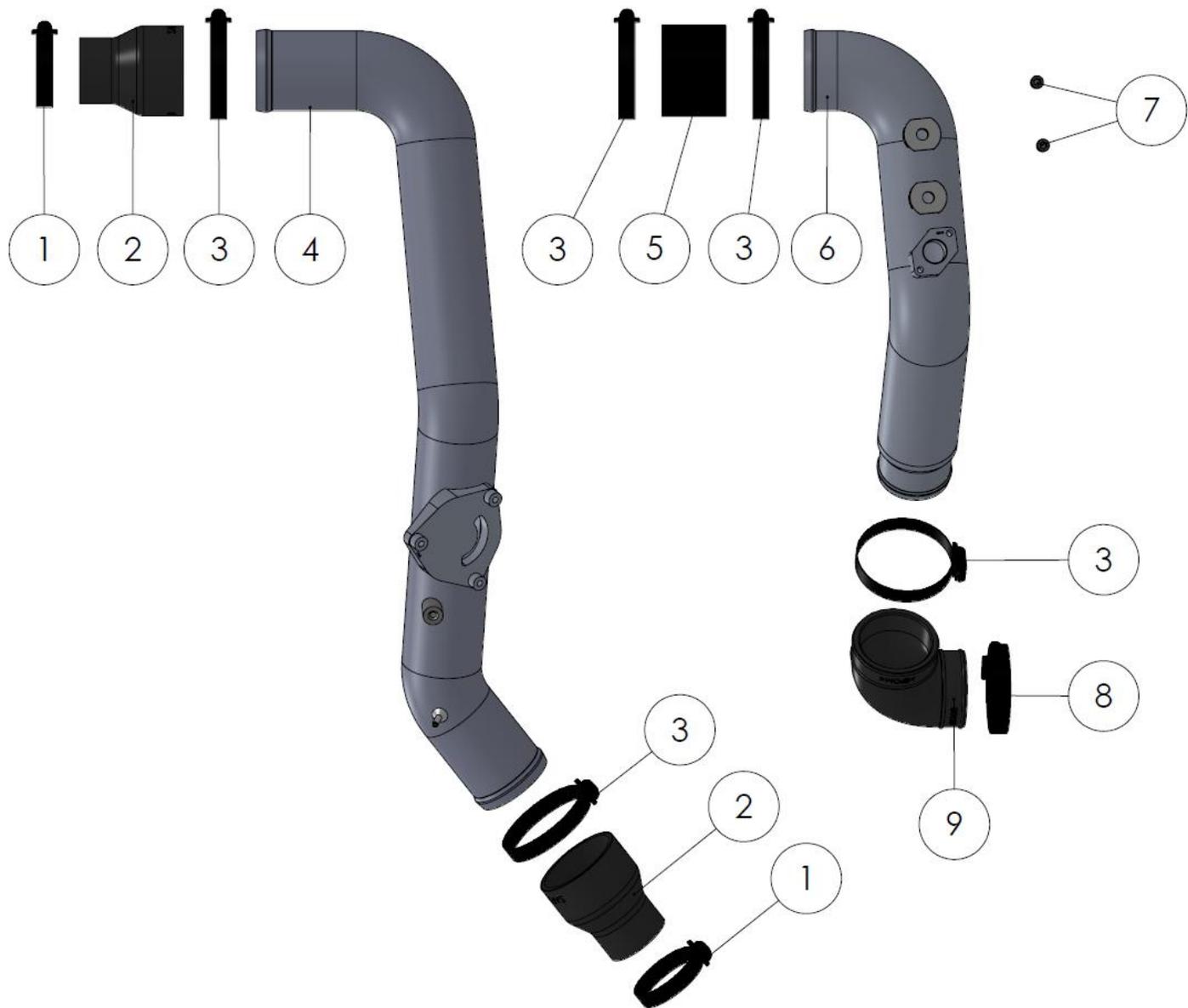
HYUNDAI

TUCSON

1.6 Turbo

Not legal for sale or use on any pollution controlled motor vehicle in California or states adopting California emission procedures.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	08483K	HOSE CLAMP #28, BLACK ZINC PLATED	2
2	5-1070	COUPLER;1.75-2.50X3.25" LONG, SILICONE 4-PLY	2
3	08554K	HOSE CLAMP #40, BLACK ZINC PLATED	5
4	2-1560C	TUBE; 2.50"OD X 31.5", 26-3002, GUNMETAL	1
5	5-252	HOSE, SILICONE 2.50X2" BLACK	1
6	2-1561C	TUBE; 2.50"OD X 20.5", 26-3002, GUNMETAL	1
7	1-1014	PLUG; STAINLESS STEEL 1/8" NPT	2
8	08530K	HOSE CLAMP #36, BLACK ZINC PLATED	1
9	03108	HOSE; ELBOW; 90, 2.25 ID/2.0 ID; BLACK; EPDM	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 performance parts, throttle body, and engine.

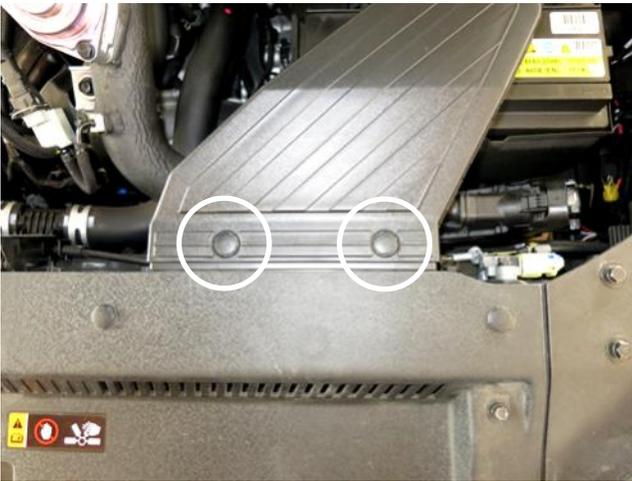
1. Preparing Vehicle

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

Tools Needed:

Flat Head Screw Driver	Socket Driver
8, 10, 12 mm Sockets	6" Extension
Pliers	3/16" & 3mm Allen
Pipe Sealer/Teflon Tape	Warm Soap & Water
Jack/Ramps	Jack Stands

2. Removal of stock system



a. Remove the two clips securing the stock air scoop and remove the scoop from the vehicle.



b. Squeeze the spring clamp and work the clamp back off of the turbo recirculation valve hose. Disconnect the hose from the stock intake tube.



c. Remove the M6 bolt securing the electrical connector. Release the tension on the spring clamp and remove the vacuum hose from the nipple. These will be reused in step 3l & 3m.



d. Remove the 3 bolts securing the recirculation valve to the stock intercooler pipe, then move the valve to the side of the engine compartment. Note: bolts and O-ring will be reused in step 3n.



e. Remove the bolt that secures the intercooler pipe to the engine. This bolt will not be reused.



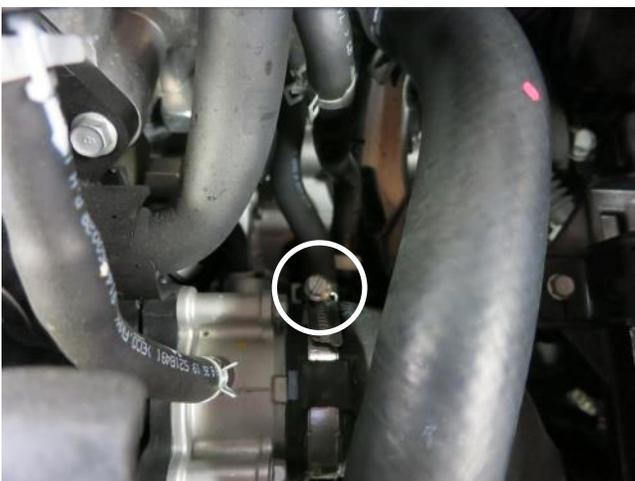
f. Loosen the hose clamp at the turbo compressor. Note: A hose clamp cap that covers the slot may be present. You can pry it off with a screwdriver or pliers.



g. Loosen the hose clamp at the intercooler. Note: A hose clamp cap that covers the slot may be present. You can pry it off with a screwdriver or pliers.



h. Remove the upper intercooler pipe from the engine by taking it off from the turbo compressor first, then from the intercooler inlet.



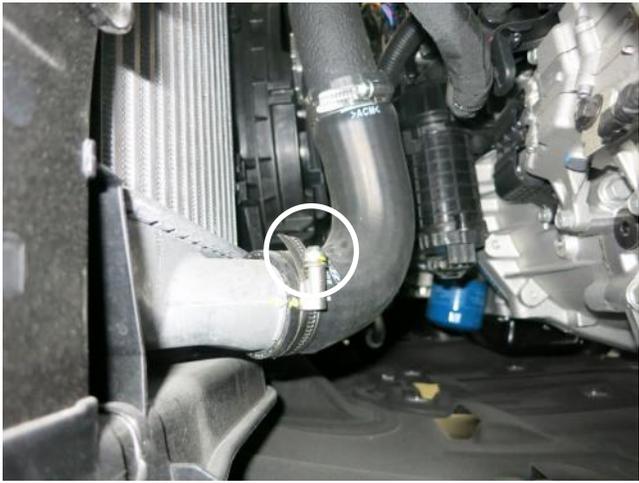
i. Loosen the hose clamp at the throttle body. Note: A hose clamp cap that covers the slot may be present. You can pry it off with a screwdriver or pliers.



j. Remove the electrical connector from the pressure sensor on the lower intercooler pipe.



k. Remove the 17 bolts that secure the splash shield to the vehicle. Note: The small oil access cover does not need to be removed from the shield and not all of the bolts are pictured above.



l. Loosen the hose clamp at the lower intercooler outlet from under the vehicle. Note: A hose clamp cap that covers the slot may be present. You can pry it off with a screwdriver or pliers.



m. Remove the lower intercooler pipe from the vehicle, disconnecting it from the lower intercooler first, then from the throttle body, finally taking out from the top.



n. Remove the two M6 bolts securing the pressure sensor to the lower intercooler pipe. These bolts will be reused in step 3a.

3. Installation of AEM® performance parts.

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



a. Install the 2 NPT plugs into the AEM intercooler pipe with Teflon tape or pipe sealant. Then, install the pressure sensor with M6 bolts removed in step 2n.



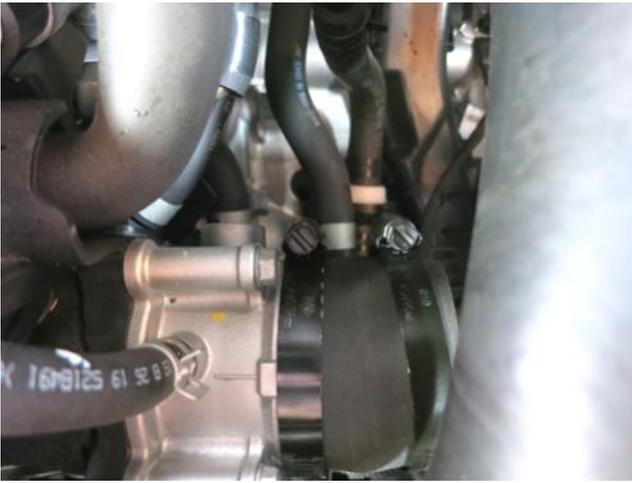
b. Install the 90° coupler with the provided hose clamps onto the lower intercooler outlet. Note: Warm soapy water will help with installation.



c. Install the AEM intercooler pipe into the coupler. Tighten hose clamp once upper part of tube is aligned to 30 in-lbs.



d. Install the provided coupler onto the throttle body and install the AEM lower intercooler pipe into the coupler along with hose clamps. Note: Warm soapy water will help with installation.



e. After installing the coupler and hose clamps onto the throttle body, make sure the tube is aligned and tighten all the hose clamps at the throttle body and lower intercooler outlet to 30 in-lbs.



f. Connect the pressure sensor electrical connector to the pressure sensor.



g. Install the provided coupler and hose clamps onto the turbo compressor outlet. Tighten the hose clamp circled at this time to 30 in-lbs.



h. Install the provided coupler and hose clamps onto the intercooler. Tighten the hose clamp circled at this time to 30 in-lbs.



i. Install the AEM upper intercooler pipe into the previously installed coupler on the intercooler first, then into the coupler. Note: Using warm soapy water may help installation and alignment.



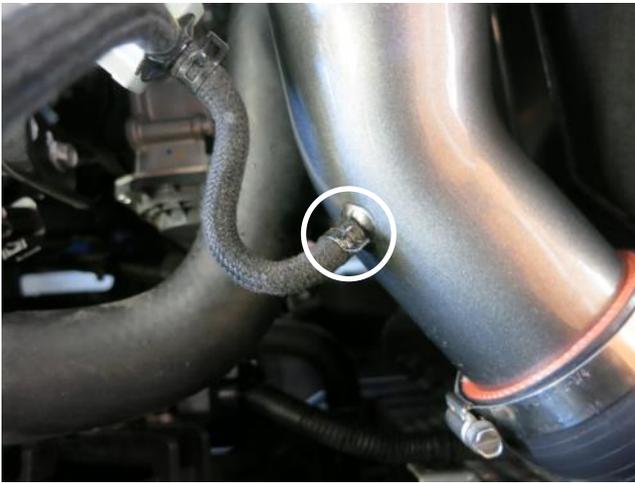
j. Once the AEM intercooler pipe is properly aligned. Tighten the hose clamp circled to 30 in-lbs.



k. Tighten hose clamp circled at the intercooler to 30 in-lbs



l. Using the bolt removed in step 2c to secure the electrical connector to the AEM pipe.



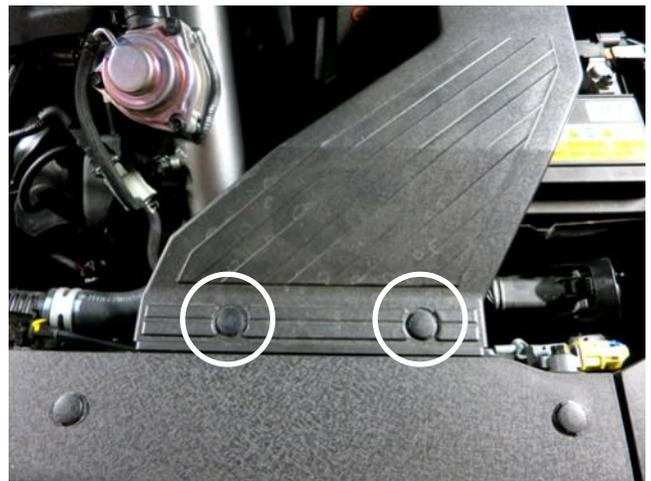
m. Reattach the vacuum hose that was removed in step 2c. with the stock spring clamp.



n. Reinstall the BOV onto the AEM intercooler pipe and tighten with the bolts that were removed in step 2d.



o. Slide the BOV hose back onto the stock intake tube and secure with the stock spring clamp that was removed in step 2b. Note: Soapy water will help with installation.



p. Install the stock scoop back into the vehicle with the clips removed in step 2a.



q. Reinstall the splash shield and the 17 bolts to the vehicle. Note: Not all of the bolts are pictured above.



STOCK CHARGE PIPES INSTALLED



AEM CHARGE PIPE KIT INSTALLED

4. Reassemble Vehicle (where applicable)

- a. Position all components for the best fitment. Be sure 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 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 (where applicable)

- a. Use window cleaner to clean your powder coated AEM[®] tubes.
NOTE: DO NOT USE aluminum polish on powder coated AEM[®] tubes.