

# RTUNES RACING

**Part Number:** CAI-HD019B, CAI-HD019R



**Part List:**

Cold air intake pipe	3 Pieces
Coupler	3 Pieces
Clamp	7 Pieces
Rubber hose	2 Pieces
Air filter	1 Piece
Rubber spacer	2 Pieces
Bolt	1 Piece
Nut	3 Pieces
Washer	2 Pieces
Rubber trim	1 Piece

Note: Disconnect the negative battery terminal before starting this installation. The installation of this cold air intake does require mechanical skills. Removal of the front bumper requires loosening and removing several plastic plugs and screws that may be difficult. In addition to removing the bumper, you will also have to remove the air resonator box and battery when beginning this installation.

- 1- Unplug the MAF sensor connection.



- 2- Release the MAF sensor clip from the air box.



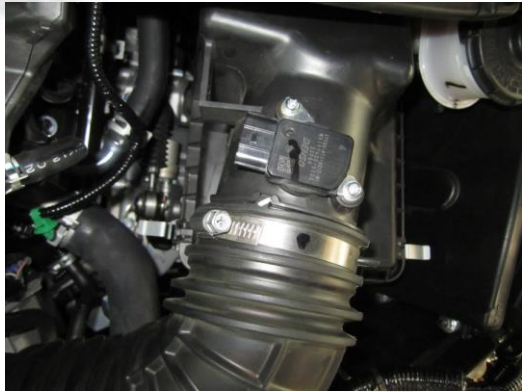
- 3- Release the clip on the PCV pipe and remove the pipe from the intake tube. Remove the PCV pipe from the valve cover.



4- Loosen hose clamp on the throttle body.



5- Release the 2 air box lid clamps.



6- Remove the stock intake tube and the air box lid.





- 7- Remove the bolt that holds the air box in place.



- 8- Lift up on the back of the lower air box and then remove it.



- 9- Remove 2 bolts that under the battery tray for the lower intake tube.



- 10- Raise the front of the vehicle with a jack. Support your vehicle using properly rated jack stands before wheel

removal or while working under the vehicle.



11- Remove the driver side wheel.



12- Remove the 2 plastic clips securing the side splash shield, and then move the shield out of the way.



- 13- Remove the philips screw on the weather guard.



- 14- Remove the 4 front upper clips that secure the splash shield.



- 15- Remove the 2 bottom clips that hold the splash shield.



- 16- Move the splash shield out of the way.



- 17- Remove the 3 bolts that hold the resonator and sound tube.



- 18- Disconnect the sound tube from the resonator.





- 19- Remove the resonator from the vehicle.



- 20- Remove the middle tube from the top of the vehicle.



- 21- With a blade carefully cut 2" off of the plastic piece between the front of the bumper and radiator support for more air flow.





- 22- This is how the cut piece should look after it was cut and removed.



- 23- Release the clip on the throttle body coolant hose and pull the hose off. The stock clip will be reused. NOTE: Please make sure your vehicle is cold because coolant will spill out from the hose.



- 24- Release the clip on the thermostat coolant hose and pull the hose off. The stock clips will be reused. NOTE: Please make sure your vehicle is cold because coolant will spill out from the hose.



- 25- Install the provided hose on the throttle body and thermostat. Secure the hose with the stock hose clips.



- 26- Install the provided straight coupler with 2 clamps onto the throttle body. Secure with provided hose clamps.
- 27- Remove the Maf sensor from the stock air box.



- 28- Install the MAF sensor to the upper intake pipe.



- 29- Install a provided reducer coupler with 2 clamps on the upper intake pipe and tighten the clamp on the pipe and

semi-tighten the clamp on the open end.



30- Install the rubber trim on the battery tray.



31- Install the middle intake pipe as shown in the picture below. Use a bolt and washer secure it. NOTE: Don't tighten it up, leave it loose.





- 32- Install the upper pipe onto the throttle body and the middle pipe.



- 33- Remove the OEM bolt that holds the ground wires and replace it with a rubber spacer.



- 34- Install the provided reducer coupler with 2 clamps onto the lower intake pipe. Semi-tighten both clamps.



- 35- Set the lower intake pipe in place.



- 36- Align the lower intake pipe and tighten it with provided nut.



- 37- Install the provided air filter. Tighten the clamp on the filter neck.



- 38- Make sure the filter has proper clearance and then tighten the clamps on the lower intake pipe.



- 39- Reconnect the MAF sensor connection.



- 40- Install the bigger hose with 2 clamps on the PCV vent on the valve cover and the intake pipe.



- 41- Make sure there is proper clearance around the intake system and then tighten the bolt on the middle intake pipe



bracket.



- 42- Tighten all the clamps on the upper and middle intake pipes.
- 43- Installation completed.

For the idea of the Universal Bracket Installation (Not for all intakes), please visit <http://www.youtube.com/watch?v=IMIXVYGW2Zk>.

If you have any questions about the product, please contact us thru Ebay Message.