

# 2010-2012 HYUNDAI GENESIS TURBO RACE INTERCOOLER & PIPING KIT PARTS LIST AND INSTALL GUIDE

## PARTS LIST

- 1PC** | INTERCOOLER CORE
- 4PC** | ALUMINUM INTERCOOLER PIPES
- 4PC** | MOUNTING BRACKETS
- 1PC** | 2 ¼" STRAIGHT COUPLER
- 1PC** | 2 ½" STRAIGHT COUPLER
- 1PC** | 2" TO 2 ¼" TRANSITION COUPLER
- 1PC** | 2 ¼" TO 2 ½" TRANSITION COUPLER
- 1PC** | 2 ½" TO 2 ¾" TRANSITION COUPLER
- 1PC** | 2 ½" 90° COUPLER
- 2PC** | M12 x 1.25 x 15MM HEX BOLTS
- 2PC** | M12 LOCK WASHERS
- 4PC** | M6 x 1.0 x 30MM HEX BOLTS
- 4PC** | M6 x 1.0 FLANGE NUTS
- 2PC** | M6 LOCK WASHERS
- 5PC** | 2.5" T-BOLT CLAMPS
- 6PC** | 2.75" T-BOLT CLAMPS
- 1PC** | 3" T-BOLT CLAMP
- 1PC** | CARB EO STICKER

PRIOR TO INSTALLATION, CONFIRM THAT PARTS LISTED ABOVE ARE INCLUDED IN THE KIT.

### TOOLS NEEDED

- |                            |                         |
|----------------------------|-------------------------|
| JACK + JACK STANDS         | 10MM SOCKET &/OR WRENCH |
| SOCKET WRENCH + EXTENTIONS | 12MM SOCKET &/OR WRENCH |
| PHILLIPS SCREWDRIVER       | PLIERS                  |

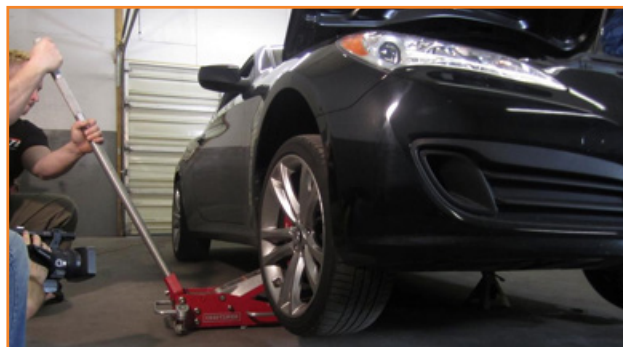
## DISCLAIMER

- Please dispose of any liquids properly.
- Allow vehicle to cool completely prior to attempting installation.
- Mishimoto Performance MP is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of MP products.
- MP always suggests that a trained professional install all MP products.
- Refill coolant system with 50/50 coolant, unless otherwise specified by the manufacturer.
- Do not run the engine or drive the vehicle while overheating. Serious damage may occur.
- Raise vehicle only on jack stands or on a vehicle lift.

## INSTALLATION INSTRUCTIONS

### 01 | REMOVING OEM SYSTEM

1. Jack up the vehicle, pop the hood, and allow for the vehicle to cool completely.



2. Loosen and remove the negative terminal of the battery.



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# 01

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## 01 | REMOVING OEM SYSTEM CONTINUED

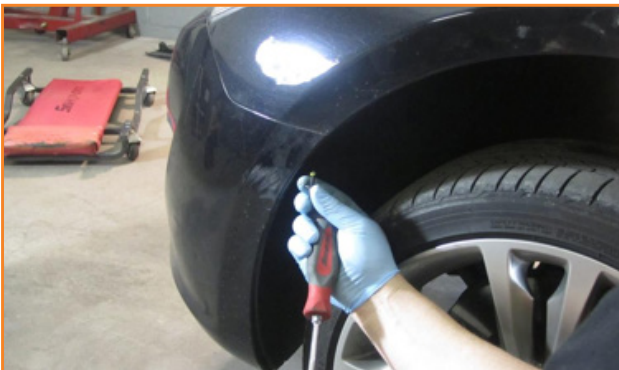
3. Remove the (4) plastic screws and (4) 10mm bolts to remove the lower splash shield.



4. Remove the (4) plastic screws for the intake dam. Lift up and remove from vehicle.



5. Remove the (2) screws holding the corner of the bumper onto the fenders.



6. Remove the (8) plastic screws for the front bumper on the radiator support.



7. Remove the front bumper.



8. Locate radiator drain plug and remove fluid from radiator. Drain into an appropriate container.



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## 01 | REMOVING OEM SYSTEM CONTINUED

9. Remove (4) 10mm upper radiator brackets. Remove brackets from vehicle.



10. Remove (2) 10mm fan shroud to radiator bolts. Remove the overflow reservoir and the water line near the radiator cap.



11. Unplug the radiator fan; remove the wiring harness from the fan shroud.



12. Remove (2) 10mm bolts for the A/C condenser.



13. Pull off insulator strip on top of radiator.



14. Remove the upper radiator hose.

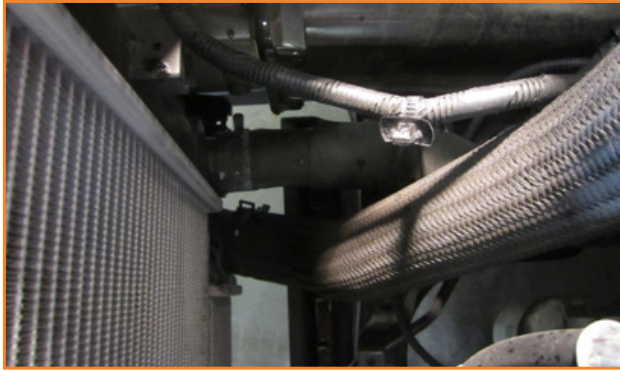


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## 01 | REMOVING OEM SYSTEM CONTINUED

15. Remove the lower radiator hose.



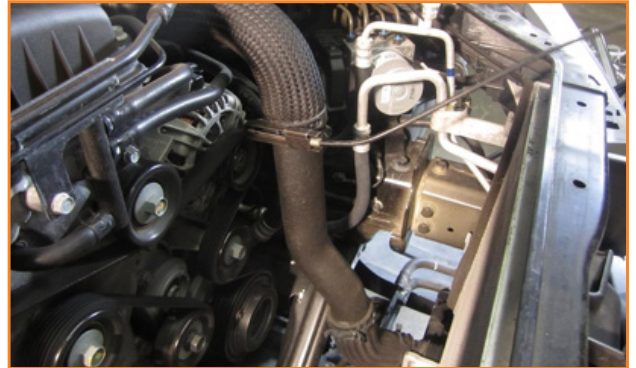
16. Remove (4) 10mm bolts holding the radiator to the intercooler.  
(2 on each side of the radiator)



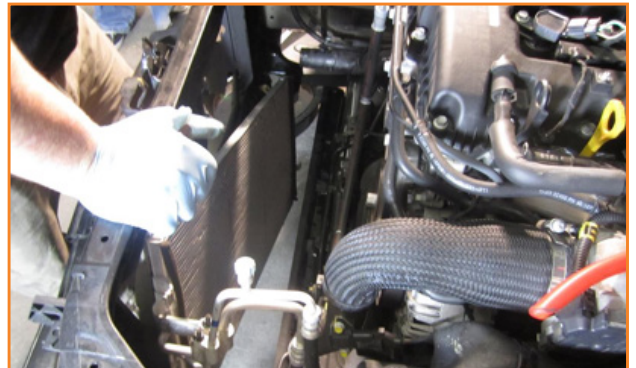
17. Pull up on A/C condenser to remove from the radiator holsters and remove radiator from the vehicle. Do not remove the A/C condenser from the vehicle, as this will require you to recharge the A/C system once completed.



18. Disconnect the Intercooler charge piping.



19. Pull out the OEM intercooler.



20. Remove (2) 10mm bolts for the airflow sensor.



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## 01 | REMOVING OEM SYSTEM CONTINUED

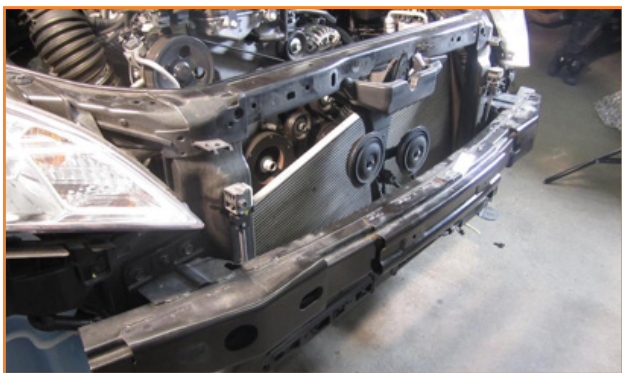
21. Remove the 12mm bolt holding the hot-side piping on.



22. Remove the remaining portions of the piping.



23. Pull off plastic air dams on both sides.



## 02 | INSTALLING THE MISHIMOTO INTERCOOLER KIT

1. Install Mishimoto intercooler mounting brackets and the (2) M6 x 1.0 bolts. Do not tighten.



2. Mount the intercooler, tighten M6 x 1.0 bolts, and install the intercooler with the provided (2) M12 x 1.75 x 20mm bolts. Leave loose. Install Mishimoto couplers onto intercooler.



3. Install lower cold-side piping



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## 02 | INSTALLING INTERCOOLER KIT CONTINUED

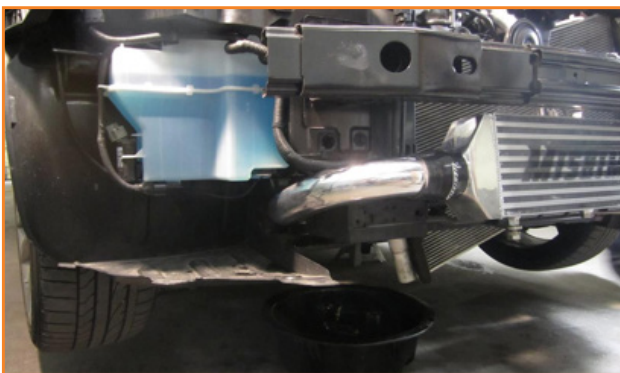
4. Install 90° coupler, upper cold-side piping, and the Mishimoto coupler on the throttle body.



5. Install t-Bolts clamps onto cold-side piping.



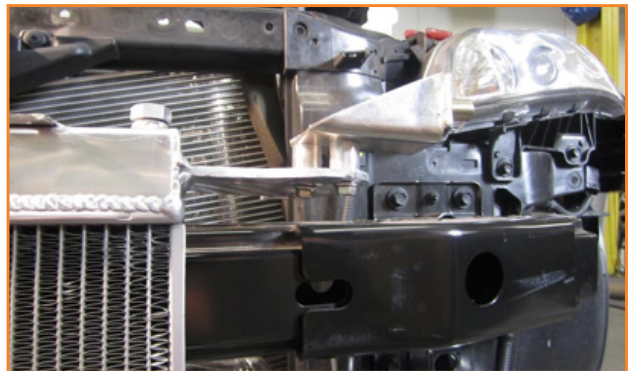
6. Install the Mishimoto coupler onto the turbo, install upper and lower hot-side piping, and install t-bolt clamps onto the hot side.



7. Reinstall the (2) 10mm bolts for the airflow Sensor.



8. Install the provided Mishimoto brackets onto the radiator. (Mishimoto radiator shown)



9. Reinstall air dams onto the front of the vehicle and reinstall the radiator from the top of the vehicle. Lift up on A/C condenser to allow condenser to sit into the radiator holsters.

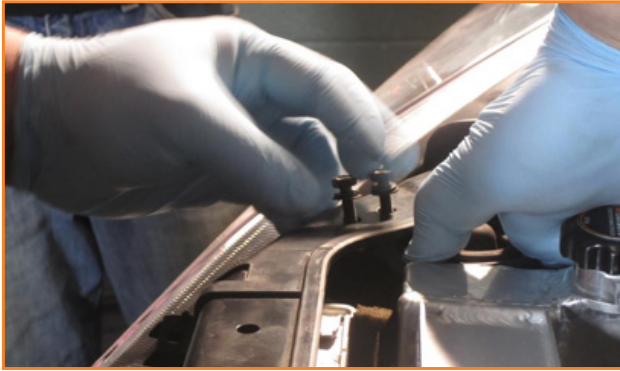


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## 02 | INSTALLING INTERCOOLER KIT CONTINUED

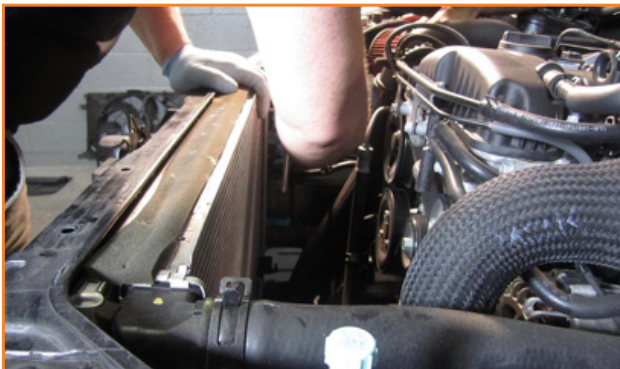
10. Reinstall the (4) 10mm bolts for the radiator stays.



11. Reinstall upper and lower hoses.



12. Reinstall the (2) 10mm A/C condenser bolts and reinstall the insulator strip.



13. Reinstall the (2) 10mm bolts for the fan shroud.



14. Plug fan in and reattach wiring harness onto the fan shroud. Reinstall the coolant overflow container and overflow rubber line.



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## 02 | INSTALLING INTERCOOLER KIT CONTINUED

15. Reinstall and tighten the negative terminal of the battery. Refill coolant, check for leaks, and bleed out air by turning the vehicle on and squeezing the upper and lower radiator hoses. Reinstall the (2) screws holding the corner of the bumper onto the fenders. Be sure to confirm that all bolts and clamps have been tightened.



16. Reinstall the (8) plastic screws for the front bumper to the radiator support. Reinstall the (4) plastic screws for the intake dam. Reinstall the (4) plastic screws and the (4) 10mm bolts to remove the lower splash shield. Lower vehicle and conduct a road test. Check for leaks in the coolant system as well as leaks in the intake system.



17. Please place the included CARB EO sticker in a clean, visible location.