

# INTERCOOLER KIT INSTALLATION MANUAL



NAME OF PRODUCT	INTERCOOLER KIT
PART NUMBER	13001-KB001
APPLICATION	HYUNDAI GENESIS Coupe
ENGINE	2.0L TURBO
YEAR	2008-
REMARKS	

## NOTICE







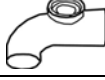














This manual assumes that you have and know how to use the tools and equipment necessary to safely perform service operations on your vehicle. This manual assumes that you are familiar with typical automotive systems and basic service and repair procedures. Do not attempt to carry out the operations shown in this manual unless these assumptions are correct. Always have access to a factory repair manual. To avoid injury, follow the safety precautions contained in the factory repair manual.

## REVISION OF MANUAL




Rev. Number	Date	Details
3-3.01	2009/2	1 <sup>st</sup> Edition
3-3.02	2009/12	Parts List revised.

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## PARTS LIST

NO.	Part Number	Descriptions	QT	Image	Remarks
1	G17910-F43021-00	Intercooler Core Assembly	1		
2	G17951-B11010-00	Inlet Pipe #1	1		
3	G17951-B11020-00	Inlet Pipe #2	1		
4	G17951-B11030-00	Inlet Pipe #3	1		
5	G17971-B11010-00	Outlet Pipe #1	1		
6	G17971-B11020-00	Outlet Pipe #2	1		
7	G17673-B11010-00	Blow-off Valve Pipe	1		
8	G17921-B11010-00	Intercooler Bracket #1	1		
9	G17921-B11020-00	Intercooler Bracket #2	1		
10	G17921-B11030-00	Intercooler Bracket #3	1		
11		Bolt M8 L=15	3		P=1.25
12		Lock Washer M8	3		
13		Plate Washer M8	3		
14	1803-SA044	Purple Silicone Hose 50-60mm	1		L=70
15	1803-SA042	Purple Silicone Hose 60mm	6		L=70
16	1803-SA030	Purple Silicone Hose 70mm	1		L=70
17	18005-AK006	Hose Clamp #28	1		
18	18005-AK008	Hose Clamp #36	13		
19	18005-AK009	Hose Clamp #40	2		
20	G09933-F43000-00	Block-off Plate	1		
21	G09912-K00020-00	C-clip	1		

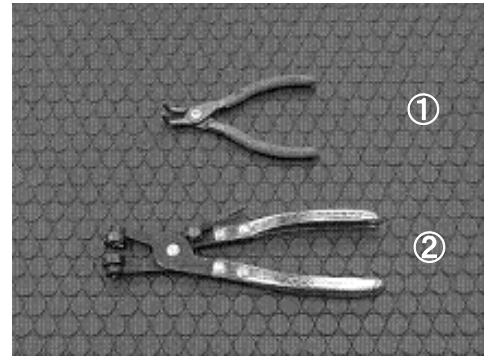
## PARTS LIST

NO.	Part Number	Descriptions	QT	Image	Remarks
22	91731-065100	O-ring	1		
23		Instruction Manual	1		
24	E04251-B11011-00	Installation Manual	1		

## 1. Required Tools For Installation

(1) To install this kit, general hand tools and the following specific tools are required:

- ① Snap Ring Pliers
- ② Hose Clamp Pliers

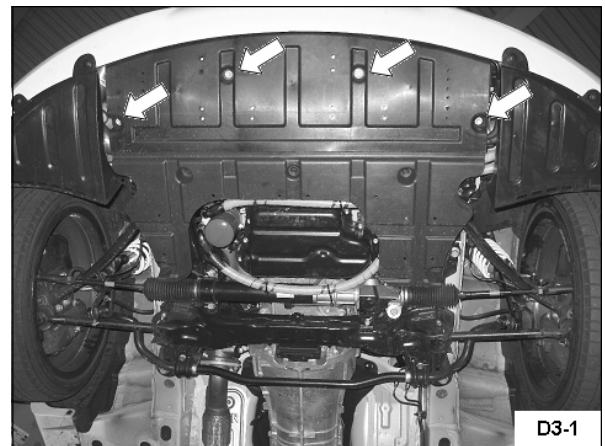


## 2. Before Installation

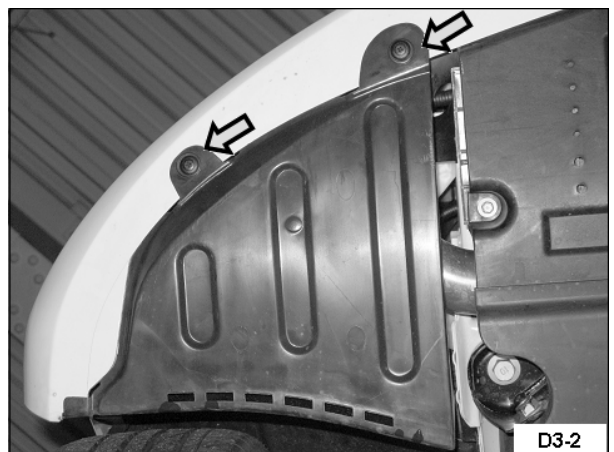
(1) Before beginning removal of the factory parts, disconnect the negative cable from the battery terminal.

## 3. Removing Factory Parts

(1) Remove 4 bolts indicated in Diagram 3-1, and remove the engine under cover.



(2) Remove 2 screws in both left and right side lower covers. (Diagram 3-2)

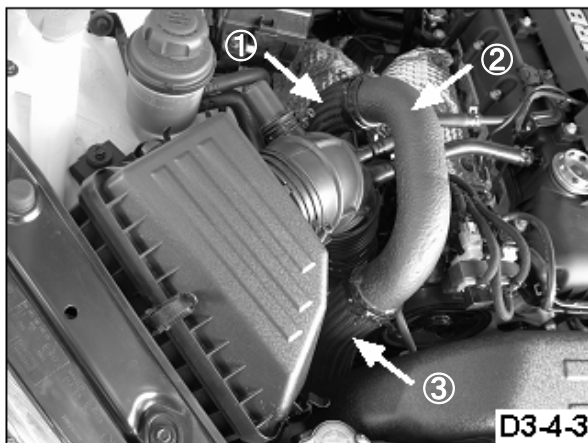
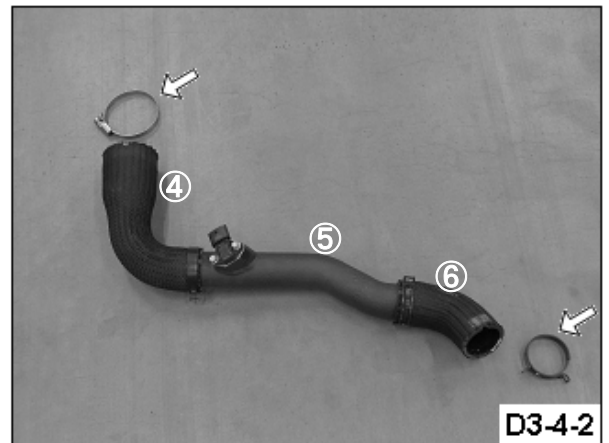
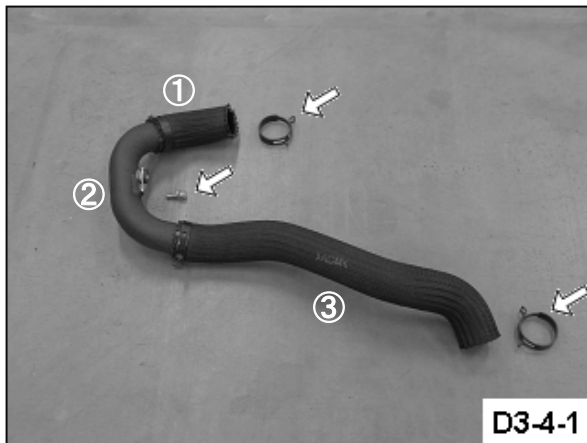


- (3) Remove 4 screws indicated in Diagram 3-3, and remove the air duct.



- (4) Remove the bolt and 4 hose clamps indicated in Diagram 3-4-1 and 3-4-2, and remove 2 intercooler pipes and 4 hoses (①~⑥ in Diagram 3-4-1 and 3-4-2). These pipes and hoses are located in the positions shown in Diagram 3-4-3 and 3-4-4.

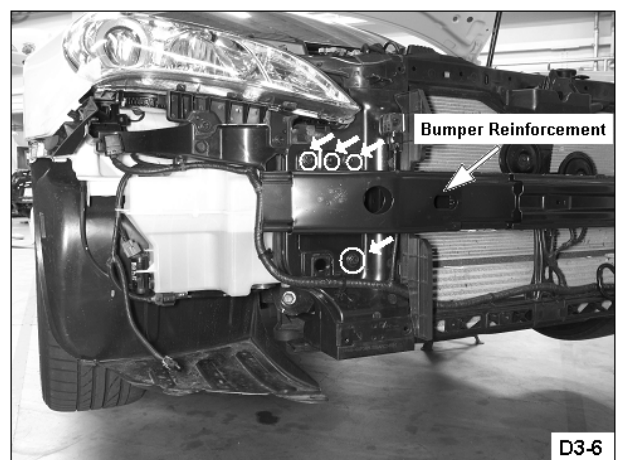
※ Required Tool: Hose Clamp Pliers



- (5) Remove the bumper. To remove the bumper, remove the following:
- 2 bolts and 8 screws attached to the upper side of the bumper.
  - 4 screws attached to the lower side of the bumper.
  - 2 fog light connectors (1 connector on each left and right side).

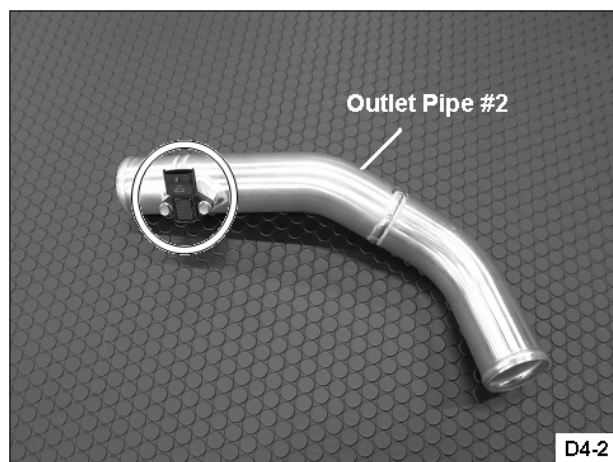
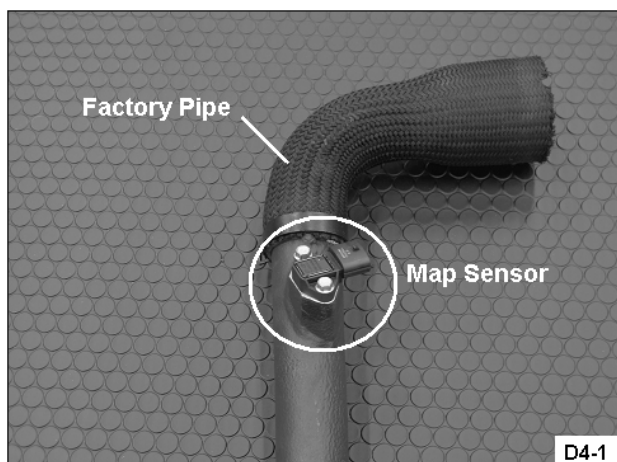


- (6) Remove 3 bolts and 1 nut from both sides to remove the bumper reinforcement.  
Diagram 3-6 shows only one side; remove bolts and nut from the opposite side as well.



## 4. Relocating Factory Parts

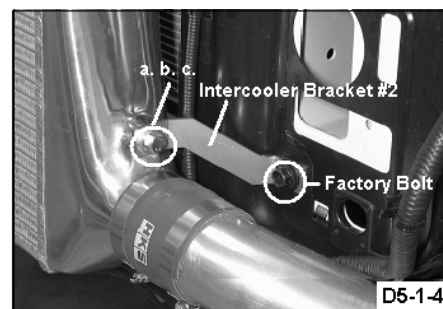
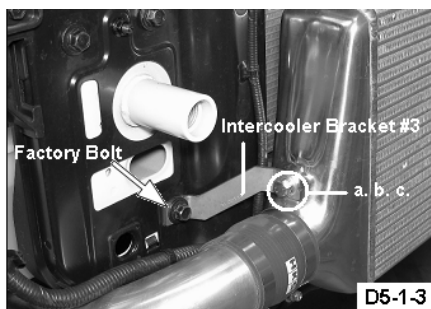
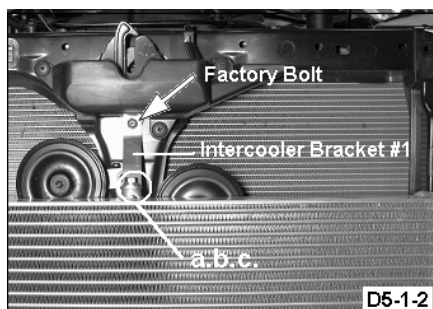
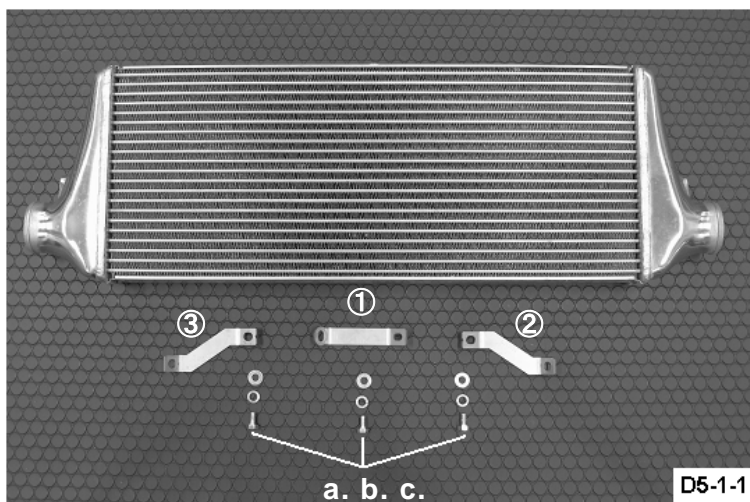
- (1) Disconnect the map sensor from the factory pipe. Install the removed map sensor to the provided Outlet Pipe #2 (P6x1) reusing the 2 factory bolts as shown in Diagram 4-1 and 4-2.



## 5. Installing Kit Parts

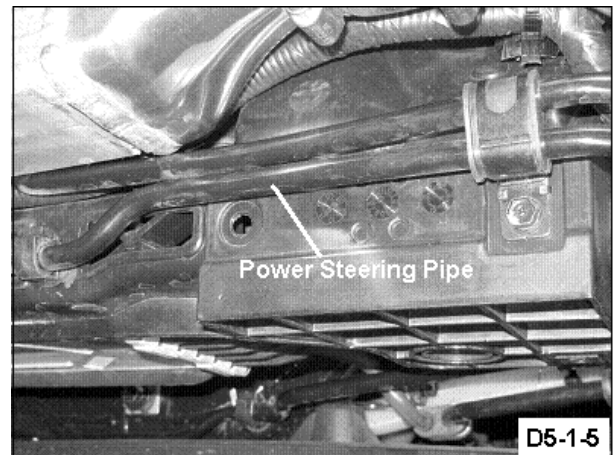
- (1) Install the Intercooler Core Assembly using the provided Brackets, Bolts, and Washers as shown in Diagram 5-1-1, 5-1-2, 5-1-3, 5-1-4, and 5-1-5.

- ① Intercooler Bracket #1 (P8x1)
- ② Intercooler Bracket #2 (P9x1)
- ③ Intercooler Bracket #3 (P10x1)
  - a. Bolt M8 P1.25 L=15 (P11x3)
  - b. Lock Washer M8 (P12x3)
  - c. Plate Washer M8 (P13x3)



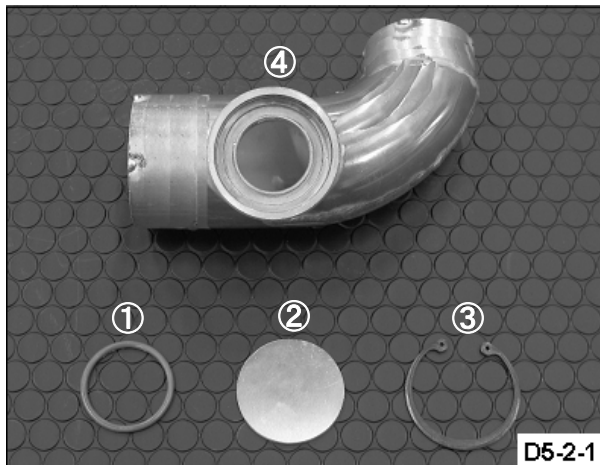
**NOTE**

If the power steering pipe comes in contact with the Intercooler Core Assembly, carefully bend the power steering pipe to avoid unnecessary contact.



- (2) Install the Block-off Plate to the Blow-off Valve Pipe using the provided O-ring and C-clip.

※ Required Tool: Snap Ring Pliers (Diagram 5-2-2 shows how the Block-off Plate should be installed onto the Blow-off Valve Pipe using the snap ring pliers.)



- ① O-ring (P22x1)
- ② Block-off Plate (P20x1)
- ③ C-clip (P21x1)
- ④ Blow-off Valve Pipe (P7x1)

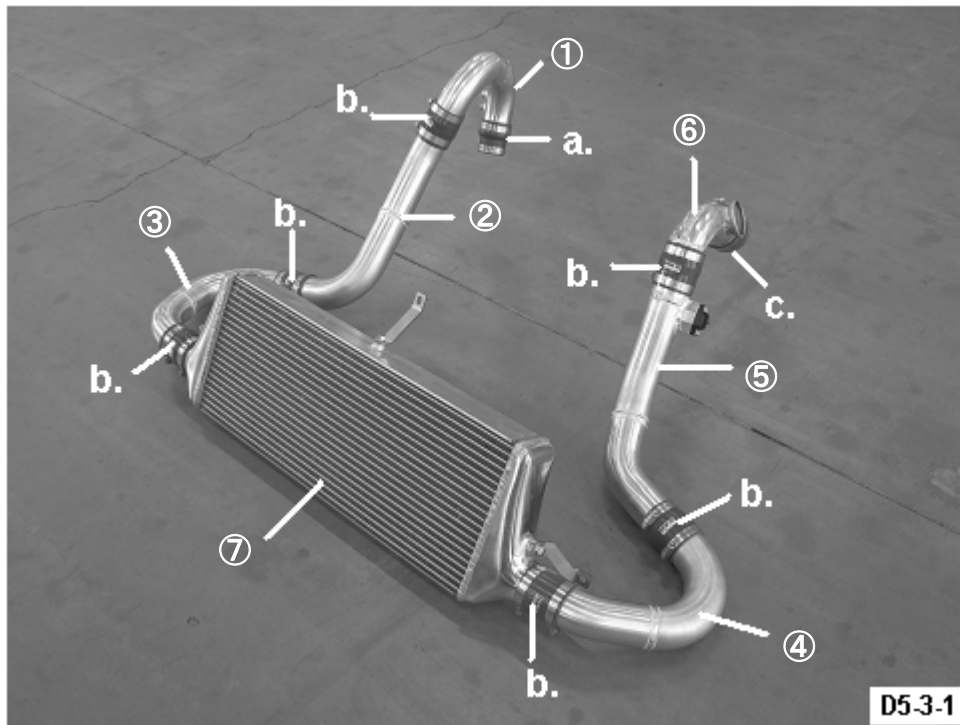
**NOTE**

To install an SSQV (sold separately) to this kit, choose one of the following:

- 71004-AK001 Super SQV
- 71004-AK002 Super SQV Racing



- (3) Install the Intercooler Pipes. Temporarily install the Inlet Pipes and Outlet Pipes to the Intercooler Core Assembly using the provided kit parts as shown in Diagram 5-3-1. Tighten all hose clamps after verifying the installed parts do not come in contact with each other.



- |                         |                                    |
|-------------------------|------------------------------------|
| ① Inlet Pipe #1 (P2x1)  | ⑤ Outlet Pipe #2 (P6x1)            |
| ② Inlet Pipe #2 (P3x1)  | ⑥ Blow-off Valve Pipe (P7x1)       |
| ③ Inlet Pipe #3 (P4x1)  | ⑦ Intercooler Core Assembly (P1x1) |
| ④ Outlet Pipe #1 (P5x1) |                                    |

- a. Silicone Hose 50-60mm (P14x1) + Hose Clamp #28 & #36 (P17x1·P18x1)  
 b. Silicone Hose 60mm (P15x1) + Hose Clamp #36 (P18x2)  
 c. Silicone Hose 70mm (P16x1) + Hose Clamp #40 (P19x2)

#### NOTE

It is recommended to cover the factory intercooler inlet & outlet with masking tape.

※ Diagram 5-3-2 and 5-3-3 show how the engine compartment will look once the installation is complete.



## **6. Reinstalling Factory Parts**

※ Reinstall the removed factory parts using the opposite of the removal procedure.

- (1) Reinstall the bumper.
- (2) Reinstall the air duct.
- (3) Reinstall the engine under cover.
- (4) Reconnect the negative terminal to the battery.