



Racing Suction Reloaded Intake Kit

70020-AZ008

2007-2008 Mazda CX-7

Engine Type: L3-VDT

Ver. 05282008

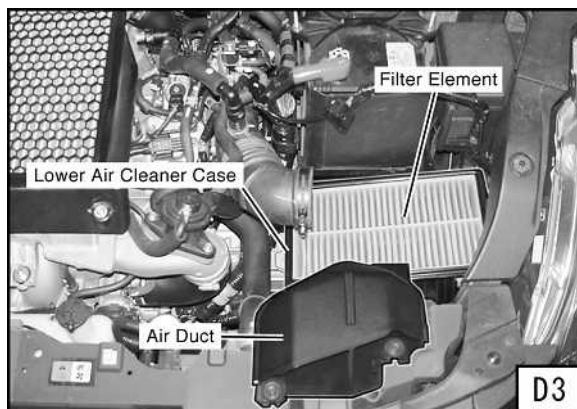
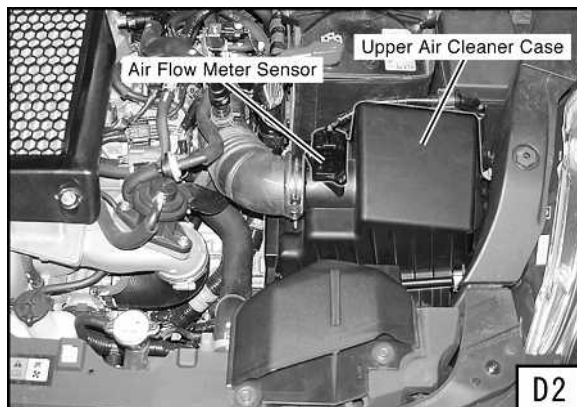
NOTICE

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.

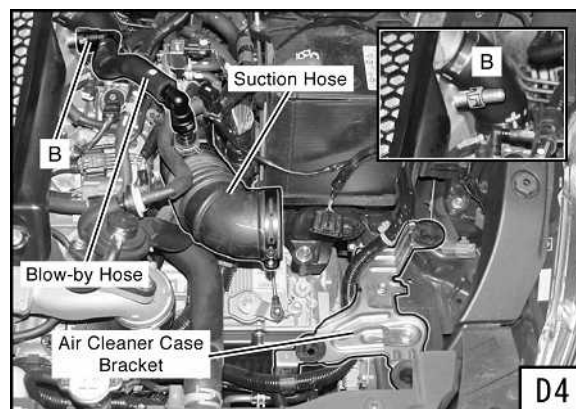
1. Removal of Stock Parts

Remove the parts in accordance with the service manual.

- 1) Remove factory battery cover and disconnect the negative terminal from the battery.
- 2) Loosen two bolts and remove the factory intercooler cover. (Diagram D1)
- 3) Unplug the air flow meter sensor connector. (Dia. D2)
- 4) Loosen the hose clamp(s), remove the band, and remove the factory upper air cleaner case assembly. (Dia. D2)
- 5) Remove the factory air filter element. (Diagram D3)
- 6) Remove 2 bolts, and then remove the factory air duct. (D3)
- 7) Remove the lower air cleaner case.



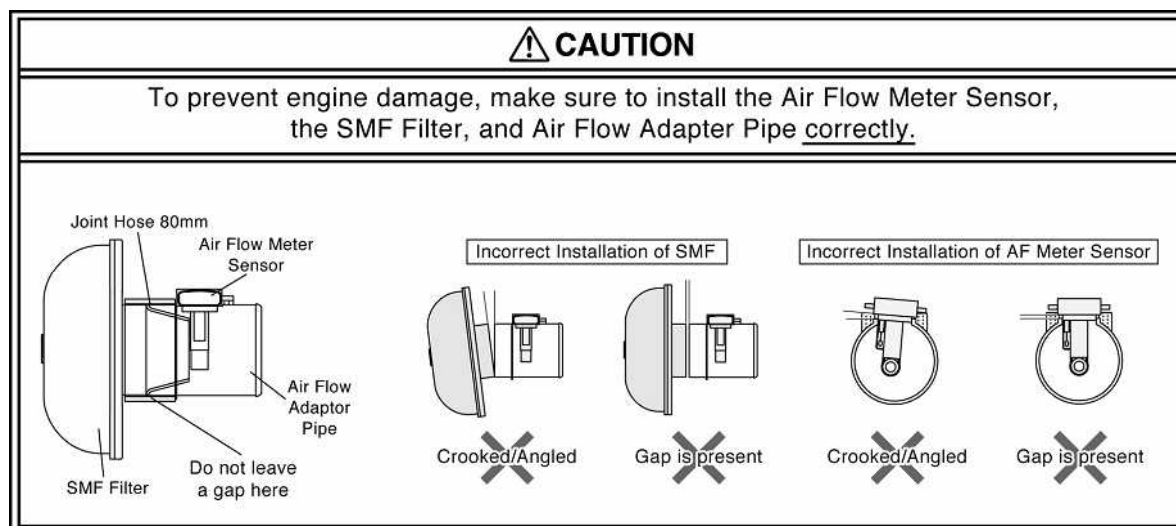
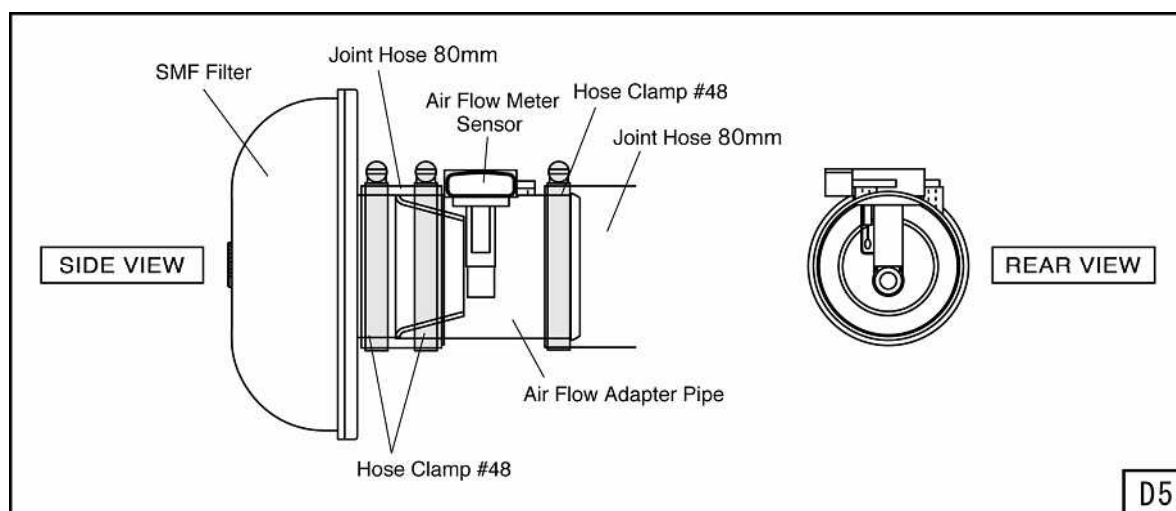
- 8) Loosen the hose clamp(s) on the suction hose, remove the joint on section B, and remove both the factory suction hose and blow-by hose as one unit. (Diagram D4)
When doing so, there is no need to remove the blow-by port illustrated in section B.
- 9) Loosen the bolt(s), and then remove the factory air cleaner case bracket. (D4, one bolt will be reused later)
- 10) Remove the air flow meter sensor from the upper air cleaner case.



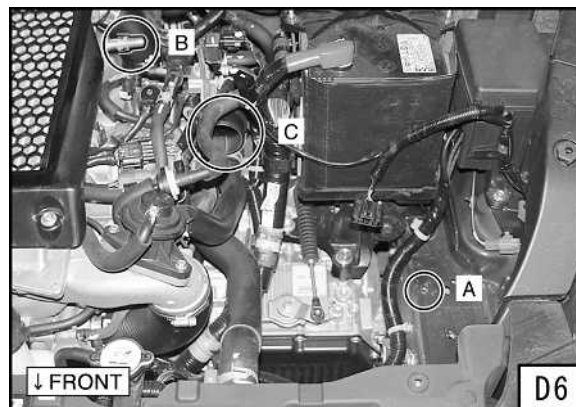
2. Installation of Racing Suction Reloaded Intake Kit

Install the parts in accordance with diagrams below.

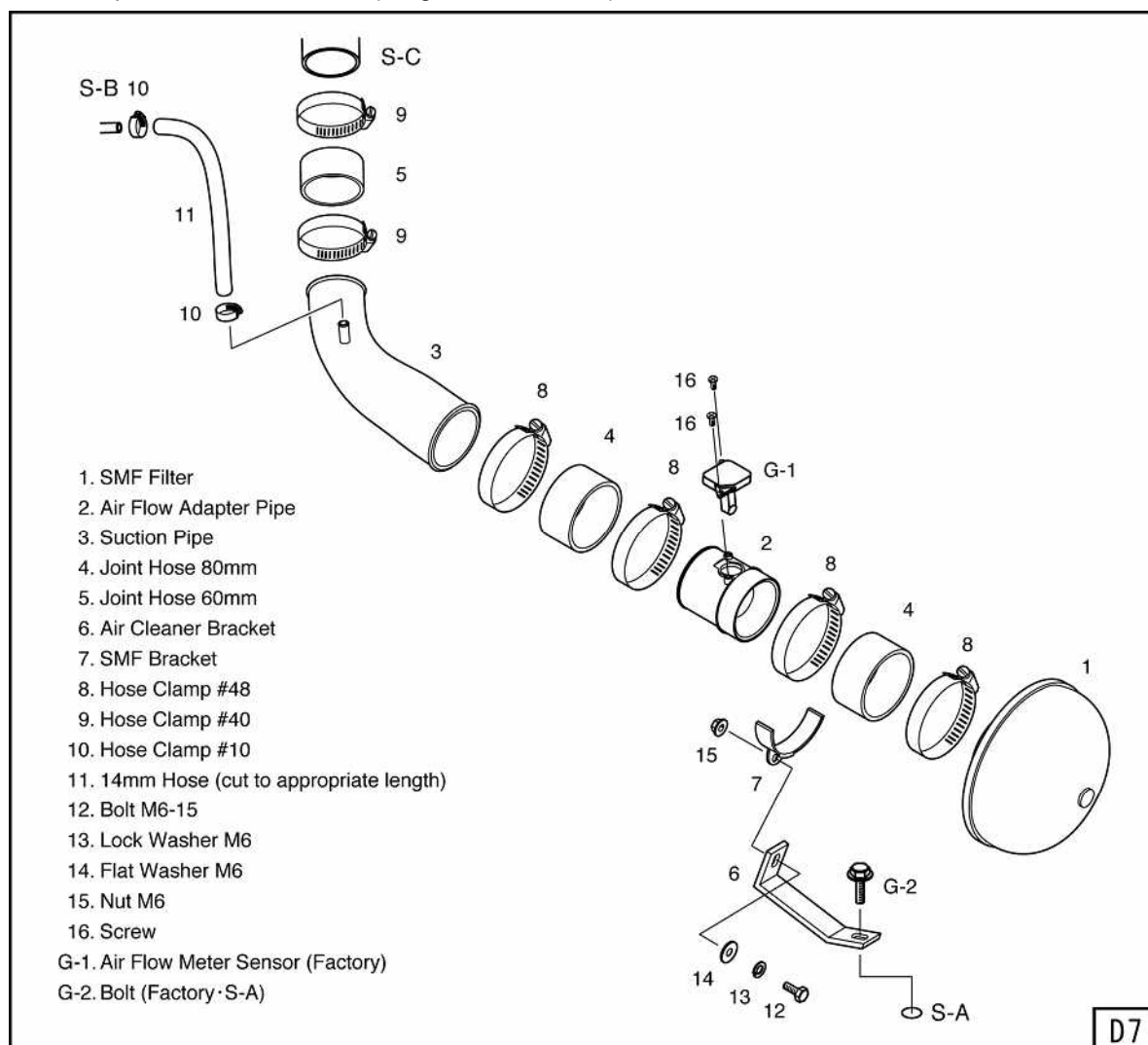
- 1) Install the factory airflow meter sensor to the Air Flow Adapter Pipe as shown below using the Screw 4mm. Do not over-tighten the Screw. Make sure the factory airflow meter sensor O-ring does not get pinched in the Air Flow Adapter Pipe. (Tightening Torque: 2.0-3.0N/m [0.2-0.3kgf/m]) (Dia. D5, D7)



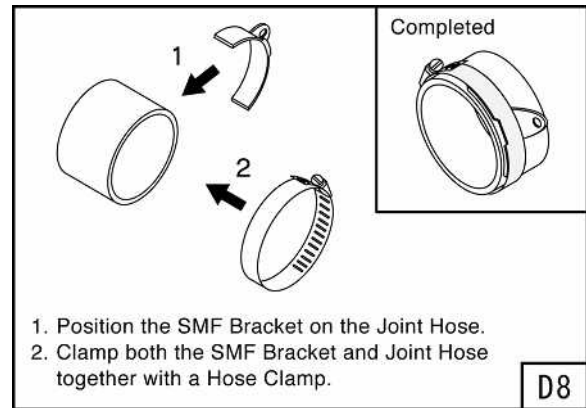
- 2) Install the Air Cleaner Bracket to section A using the factory bolt. (Dia. D6, D7)



- 3) Install kit parts as shown below. (Diagram D6, D7, D8)



- 4) Position the SMF such that it does not come into contact with the vehicle body. Once properly positioned, secure with Hose Clamp(s) and Bolt(s). Do not over-tighten the clamps or bolts. (Dia. D9)
ADVICE:
Use of proper tools can help avoid over-tightening of hose clamps. (Screw drivers are recommended – boxed wrenches/ratchets tend to use more force.) If over-tightened, the air cleaner may bend or become damaged. (Tightening torque: 2.0~3.0 N-m {0.2~0.3 kg-m})






















- 5) Re-connect the factory air flow meter sensor connector.
6) Re-install the factory air duct. (Dia. D10)
7) Re-install the factory intercooler cover. (Dia. D10)
8) Re-connect the negative terminal to the battery.
9) Start engine and warm up to normal operating temperature, rev engine a few times to check that there is no contact from surrounding parts.

See Diagram D10 for completed picture:



PARTS LIST

No.	Description	Qty	Image	Notes
1	SMF Filter	1		200-80mm
2	Air Flow Adapter Pipe	1		80mm
3	Suction Pipe	1		
4	Joint Hose	2		80mm
5	Joint Hose	1		60mm
6	Air Cleaner Bracket	1		
7	SMF Bracket	1		80mm
8	Hose Clamp	4		#48
9	Hose Clamp	2		#40
10	Hose Clamp	2		#10
11	Hose	1		14mm, L=500
12	Bolt	1		M6-15
13	Lock Washer	1		M6
14	Flat Washer	1		M6
15	Nut	1		M6
16	Screw	2		M4-6
17	Tie Wrap	5		
18	Sticker	1		
19	Instruction Manual	1		English