



Racing Suction Reloaded Intake Kit 70020-AF010

SUBARU IMPREZA WRX STi

Engine Type: EJ207 / Chassis Type: GRB

Model Year: 2007/10-

Ver. 080215

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.

SAFETY PRECAUTIONS

WARNING

- To prevent electrical damage/burns/fires, always:
 - Disconnect the negative terminal of the battery before beginning installation.
 - When disconnecting wires/connectors, take extra care to avoid breaking/snapping the wires.

CAUTION

- Do not misuse this product.
 - Misuse of this product may lead to engine damage.
 - Misuse of this product may lead to loss of original function.
- Prior to beginning installation, check to make sure that the engine bay temperature has cooled to approximately 40 /104°F
 - Failure to let the engine cool down properly can lead to severe burns.
- Insert clean rags into open piping to prevent waste from entering the pipes.
 - If neglected, waste in the piping can lead to engine damage.

- Check to make sure that all of the parts listed in the Parts List are included in the kit.
- Reference the factory service manual for the vehicle when removing factory parts.
- Be careful when handling this product; avoid dropping or subjecting it to excessive impacts. Failure to do so may result in product damage or improper installation.
- Use the proper tools when tightening nuts and bolts. If over tightened, the bolts will become damaged.
- Keep the removed factory parts in a safe place for ease of re-installation at a later date (if necessary).
- Replace the filter element at regular intervals:
(Recommended) Replace every 3,000~5,000km/2,000-3,200miles or every 3~6 months.
Replacement filters are sold separately.
*Do not wash the filters as the filtration properties will be degraded.
- However, there are certain conditions where, depending on dirt buildup, the filter may need to be cleaned/replaced earlier than the above recommended intervals.
- If the vehicle and the product are not maintained properly as mentioned above, the product cannot perform properly, and the airflow meter sensor may not be able to detect the intake air volume accurately; it may lead to engine damage or bad conditions.

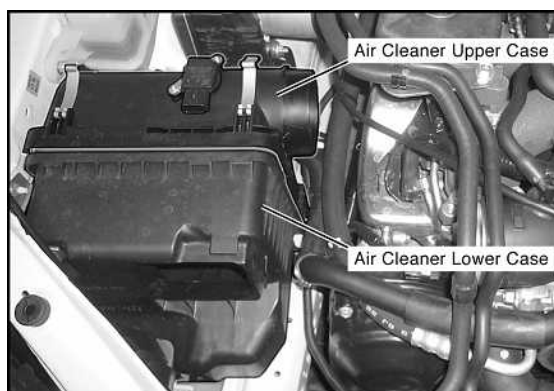
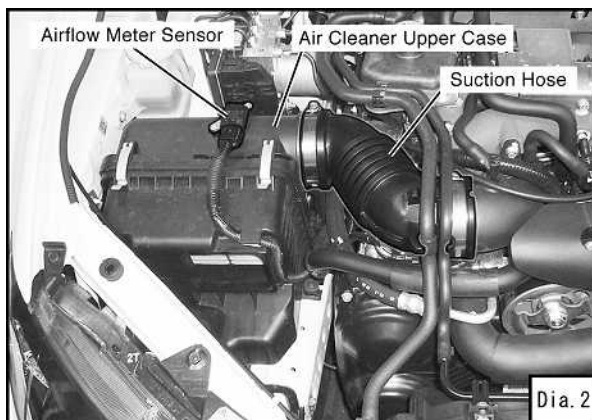
ADVICE

- This product was designed based on and for the factory vehicle; however, additional fuel settings may be necessary depending on vehicle application. If the airflow meter intake air temperature sensor is dirty (blackened, no visible shine) it can be assumed that the sensor itself is also dirty. Using the automotive parts cleaner, carefully clean the sensor.

INSTALLATION STEPS

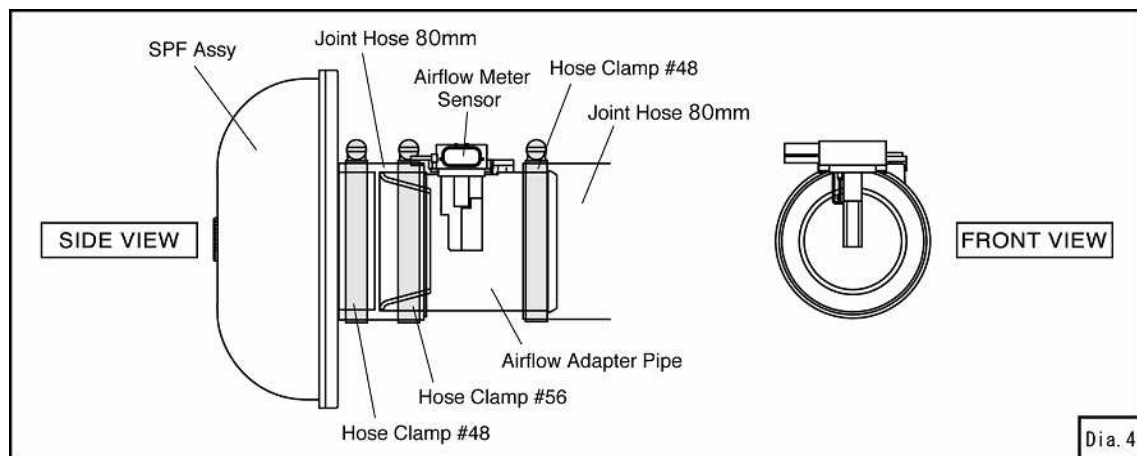
1. REMOVAL OF FACTORY PARTS

- 1) Disconnect the negative terminal of the vehicle's battery.
- 2) Remove a clip to remove the air intake duct. (Dia.1)
- 3) Disconnect the airflow meter sensor connector. (Dia.2)
- 4) Loosen the hose clamp to remove the suction hose. (Dia.2)
- 5) Remove the air cleaner upper case and the airflow meter sensor together. (Dia.2, 3)
- 6) Remove the bolt and the nut to remove the air filter element and the air cleaner lower case. (Dia.3)
- 7) Remove the airflow meter sensor from the air cleaner upper case. (Dia.2)



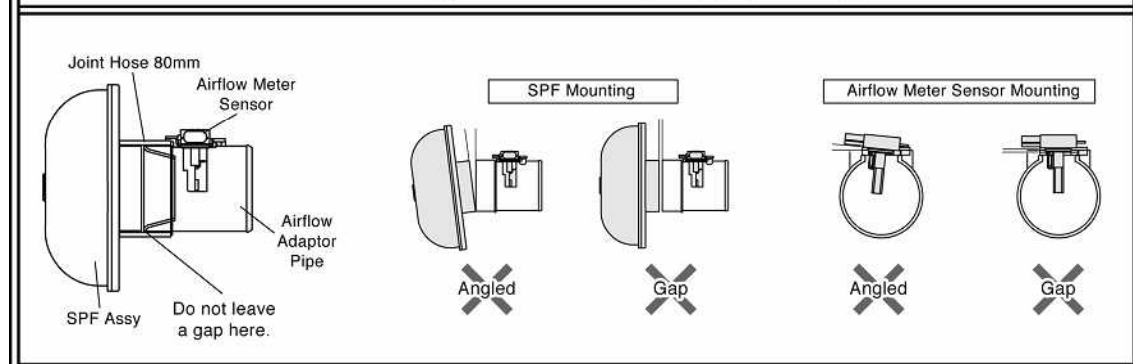
2. INSTALLATION OF THE KIT

- 1) Assemble the components as illustrated in Diagram 4. Ensure that the factory airflow meter sensor's factory O-Ring is seated correctly, while taking caution that it does not get pinched in the airflow adapter pipe. Tighten with the supplied M4 screws. Do not over-tighten. Tightening torque: 2.0~3.0 N-m (0.2~0.3 kg-m). (Dia.4, 6)



⚠ CAUTION

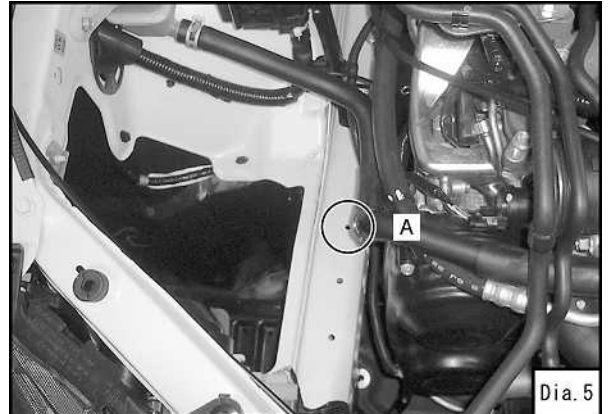
To avoid engine malfunction or damage, please install the airflow meter sensor, the SPF assy, and airflow adapter pipe correctly.



⚠ CAUTION

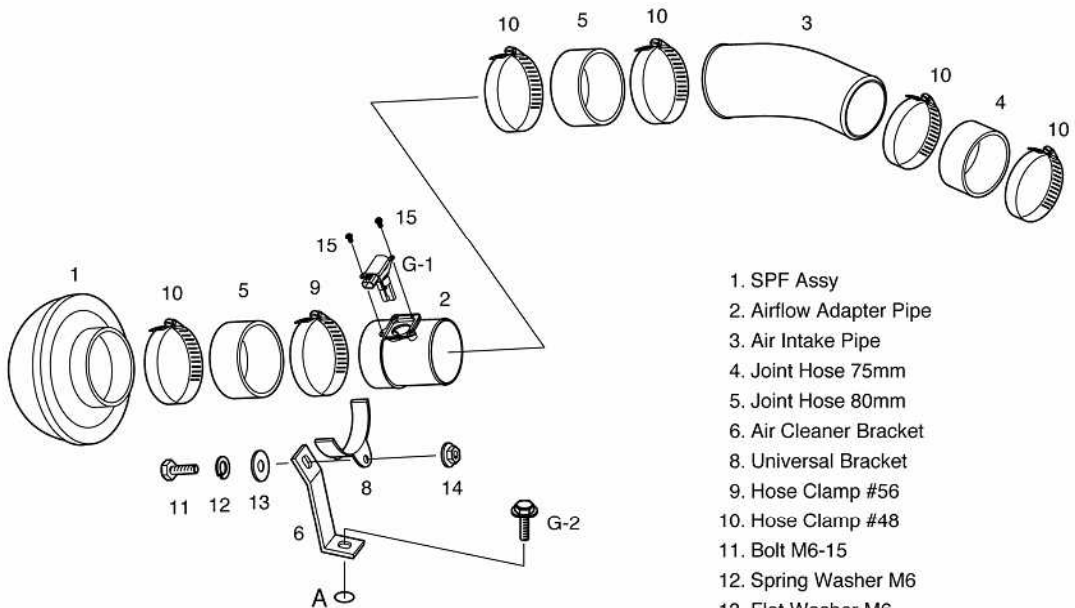
To avoid engine malfunction or damage, please do not disassemble the airflow adapter pipe.

- 2) Install the air cleaner bracket to the section A using the factory bolt.
(Dia.5, 6)



Dia. 5

- 3) Temporarily assemble the kit parts.
(Dia.6, 7)



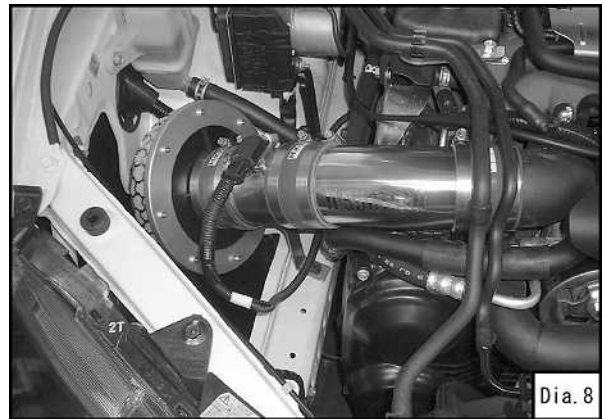
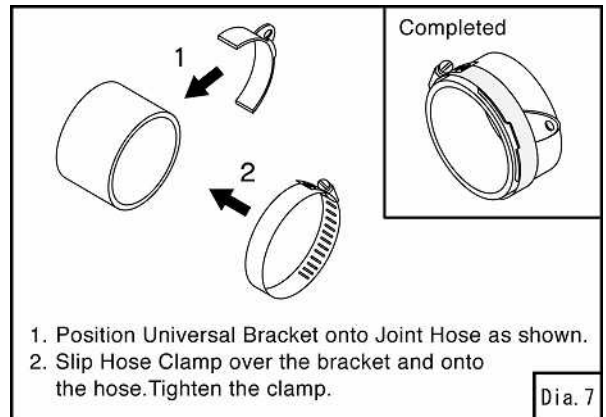
1. SPF Assy
2. Airflow Adapter Pipe
3. Air Intake Pipe
4. Joint Hose 75mm
5. Joint Hose 80mm
6. Air Cleaner Bracket
8. Universal Bracket
9. Hose Clamp #56
10. Hose Clamp #48
11. Bolt M6-15
12. Spring Washer M6
13. Flat Washer M6
14. Flange Nut M6
15. Screw M4
- G-1. Airflow Meter Sensor (Factory)
- G-2. Bolt (Factory • A)

Dia. 6

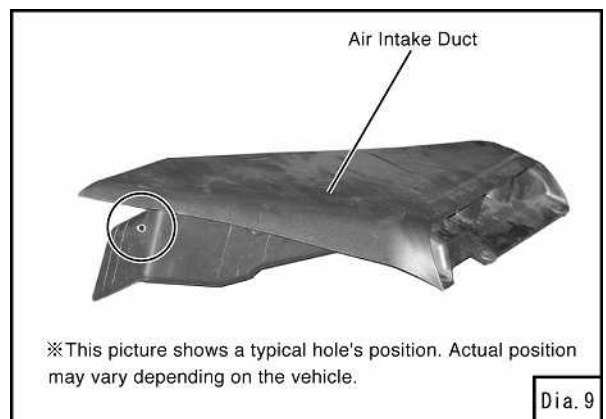
- 4) Position the air cleaner to the vehicle, avoiding unnecessary contact with other parts of the vehicle. Once the position is determined, secure the air cleaner to the vehicle using the supplied hose clamps and bolts. Do not over-tighten the clamps and bolts. (Dia.8)

ADVICE:

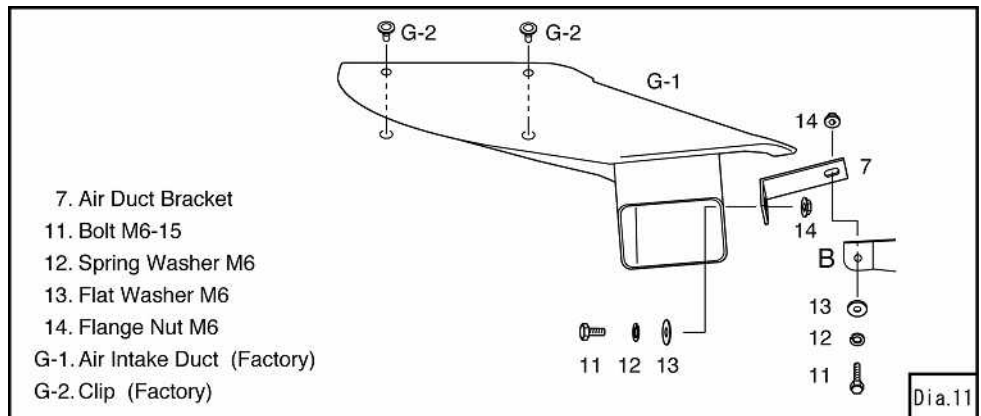
Use of proper tools can help avoid over-tightening of hose clamps. (Screw drivers are recommended. Do not use boxed wrenches since they tend to use more force.) If over-tightened, the air cleaner may bend or become damaged. (Tightening torque: 2.0~3.0 N-m {0.2~0.3 kg-m})



- 5) Drill a 7mm hole in the air intake duct as shown in the diagram 9. (Dia.9)



6) Install the air intake duct. (Dia.10, 11)



7) Reconnect the airflow meter sensor connector.

8) Reconnect the negative terminal to the vehicle's battery.



CHECKS TO PERFORM AFTER INSTALLATION:

Prior to turning on the engine:

Check all piping connections.

Check the battery connection.

Check for properly tightened hose clamps.

Check for properly tightened bolts/nuts.

Check to make sure that the installed parts are not in contact with other parts.

After turning on the engine:

Check for air leaks in the installed sections.

Lightly rev the engine two or three times, check for smooth RPM increases.

Check for noises (clanging, etc) from the installed parts.

Check for a stable idle.

Turn off the engine, and check for loosened bolts (re-tighten as necessary).











MAINTENANCE:

Maintenance of this product is necessary in order to maintain the safety, reliability, and function of this product.

Maintenance is the responsibility of the driver/owner.

- If work needs to be performed outside the scope of this manual, consult a professional.
- In order to maintain the performance of the kit, routine filter replacement is necessary. (Recommended replacement intervals) Every 3,000-5,000km/2,000-3,200miles or every 3~6 months. However, there are certain conditions where, depending on dirt buildup, the filter may need to be cleaned/replaced earlier than the above recommended intervals. Replacement filters are sold separately.
- If the vehicle becomes damaged, have the repairs performed by a professional.
- If you experience abnormal noises, scents, or vibrations from the vehicle while driving, reference the vehicle's Owner's Manual.
- If this product is ever sold, please hand over this Instruction Manual to the new owner.
- When removing this product from the vehicle, please consult a professional.

PARTS LIST

No.	Description	QT	Image	Remarks
1	SPF Assy	1		200-80mm
2	Airflow Adapter Pipe	1		
3	Air Intake Pipe	1		
4	Joint Hose	1		75mm L=55
5	Joint Hose	2		80mm L=55
6	Air Cleaner Bracket	1		
7	Air Duct Bracket	1		
8	Universal Bracket	1		80mm
9	Hose Clamp	1		#56
10	Hose Clamp	5		#48

No.	Description	QT	Image	Remarks
11	Bolt	3		M6-15
12	Spring Washer	3		M6
13	Flat Washer	3		M6
14	Flange Nut	3		M6
15	Screw	2		M4-6
16	Tie Wrap	5		
17	Sticker	1		
18	Instruction Manual	1		
19				
20				