



Racing Suction Reloaded Intake Kit

70020-AT021

TOYOTA PRIUS

Model: DAA-ZVW30

Engine Type: 2ZR-FXE

Model Year: 2009/6-

Ver. 20100730

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 installation, make sure the engine bay temperature has cooled to approximately 40 °C /104°F
 - Failure to let the engine cool down properly can lead to severe burns.
- Insert clean rags into open piping to prevent contaminants from entering the pipes.
 - If neglected, contaminants in the piping can lead to engine damage.

- 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 may 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 filter elements are sold separately.
*Do not wash the filter element as the filtration properties will be degraded.
- However, there are certain conditions where, depending on dirt buildup, the filter may need to be replaced earlier than the above recommended intervals.
- If the vehicle and the product are not maintained properly as mentioned above, the product may not perform properly and the airflow meter sensor may not be able to detect the intake air volume accurately; it can lead to engine damage or other faulty conditions.

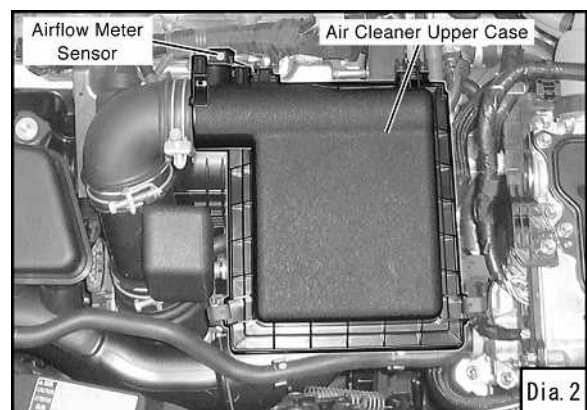
INSTALLATION PROCEDURE

1. REMOVAL OF FACTORY PARTS

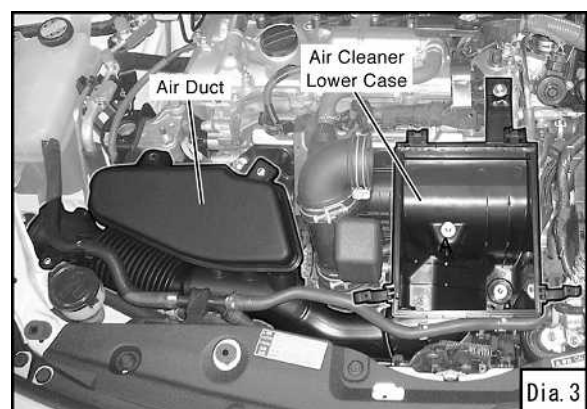
- 1) Disconnect the negative terminal from the 12V accessory battery which is located underneath the luggage area.
- 2) Remove the engine cover. (Dia.1)



- 3) Disconnect the connector from the airflow meter sensor. (Dia.2)
- 4) Loosen the hose clamp to remove the air cleaner upper case and the airflow meter sensor together. (Dia.2)



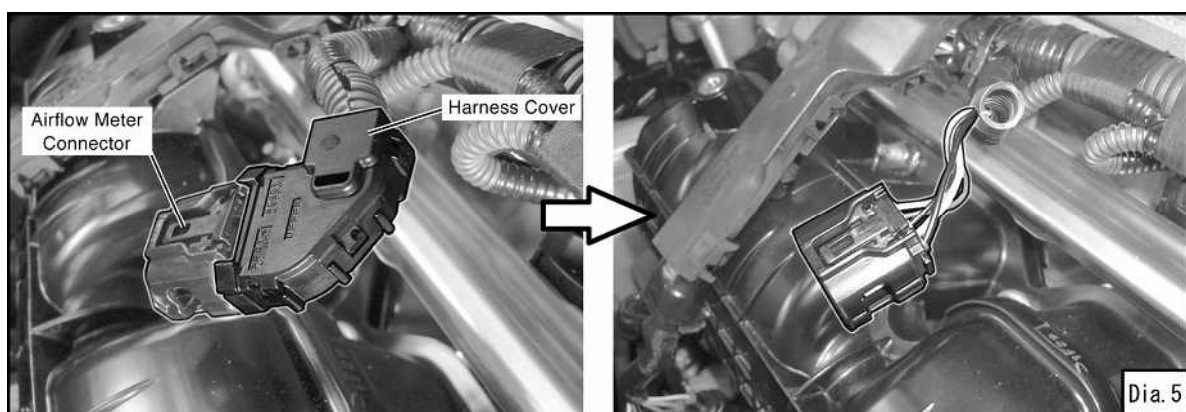
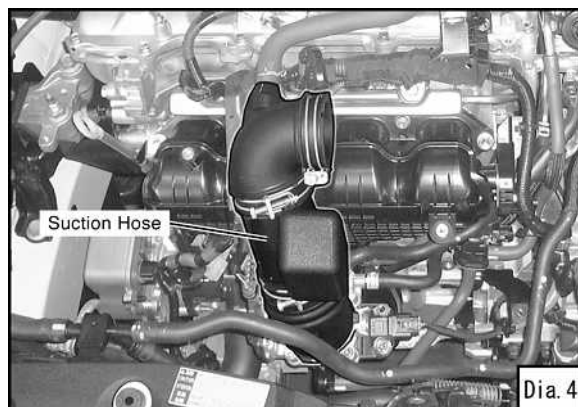
- 5) Remove the air filter element.
- 6) Remove bolts to remove the air cleaner lower case and air duct. (Dia.3)



7) Loosen the hose clamp to remove the suction hose. (Dia.4)

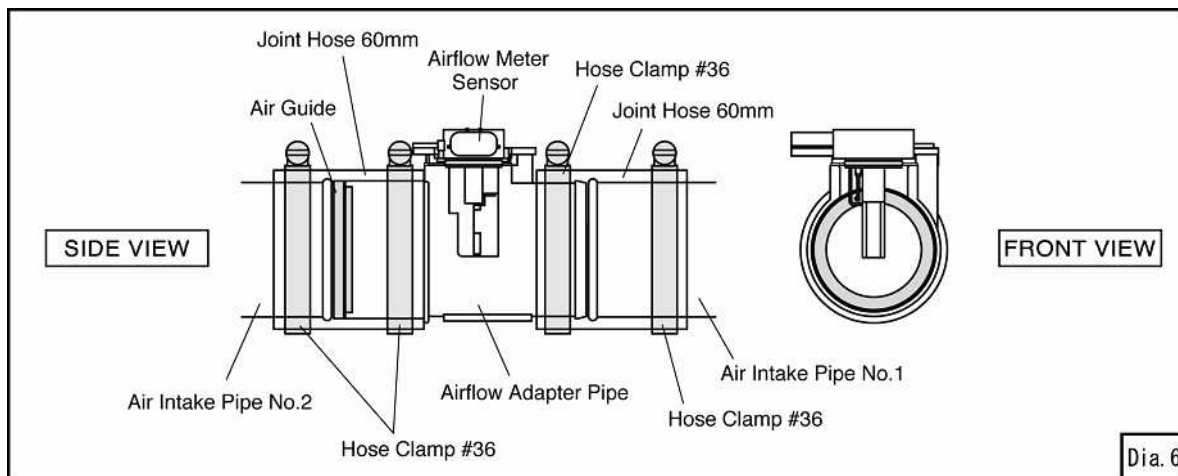
8) Carefully remove the airflow meter sensor from the air cleaner assy. (Dia.2)

9) Remove the harness cover from the airflow meter sensor connector. (Dia.5)



2. INSTALLATION OF KIT PARTS

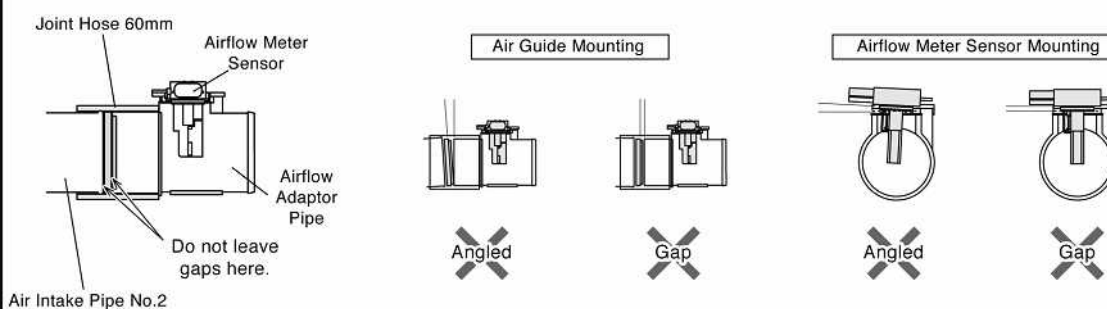
- 1) Assemble the airflow meter sensor as illustrated in Diagram 6. Ensure that the factory airflow meter sensor's factory O-Ring is seated correctly, making sure it does not get pinched in the suction pipe. Tighten with the supplied M4 screws. Do not over-tighten. Tightening torque: 2.0~3.0 N·m (0.2~0.3 kg·m). (Dia.6, Dia.8)



⚠ CAUTION

To avoid engine malfunction or damage, please install the airflow meter sensor, the air intake pipe No.2, the air guide, and airflow adapter pipe correctly.

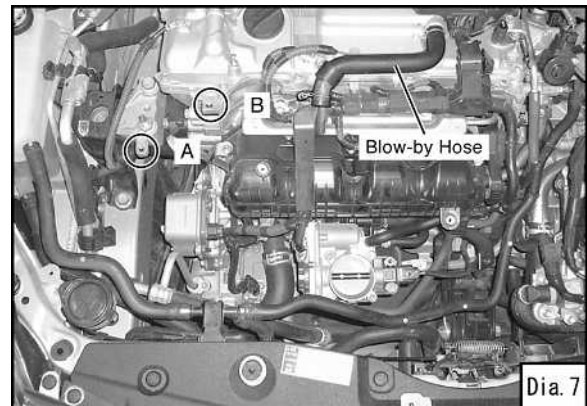
Mount the air intake pipe No.2, air guide and the airflow adapter pipe with no gap.



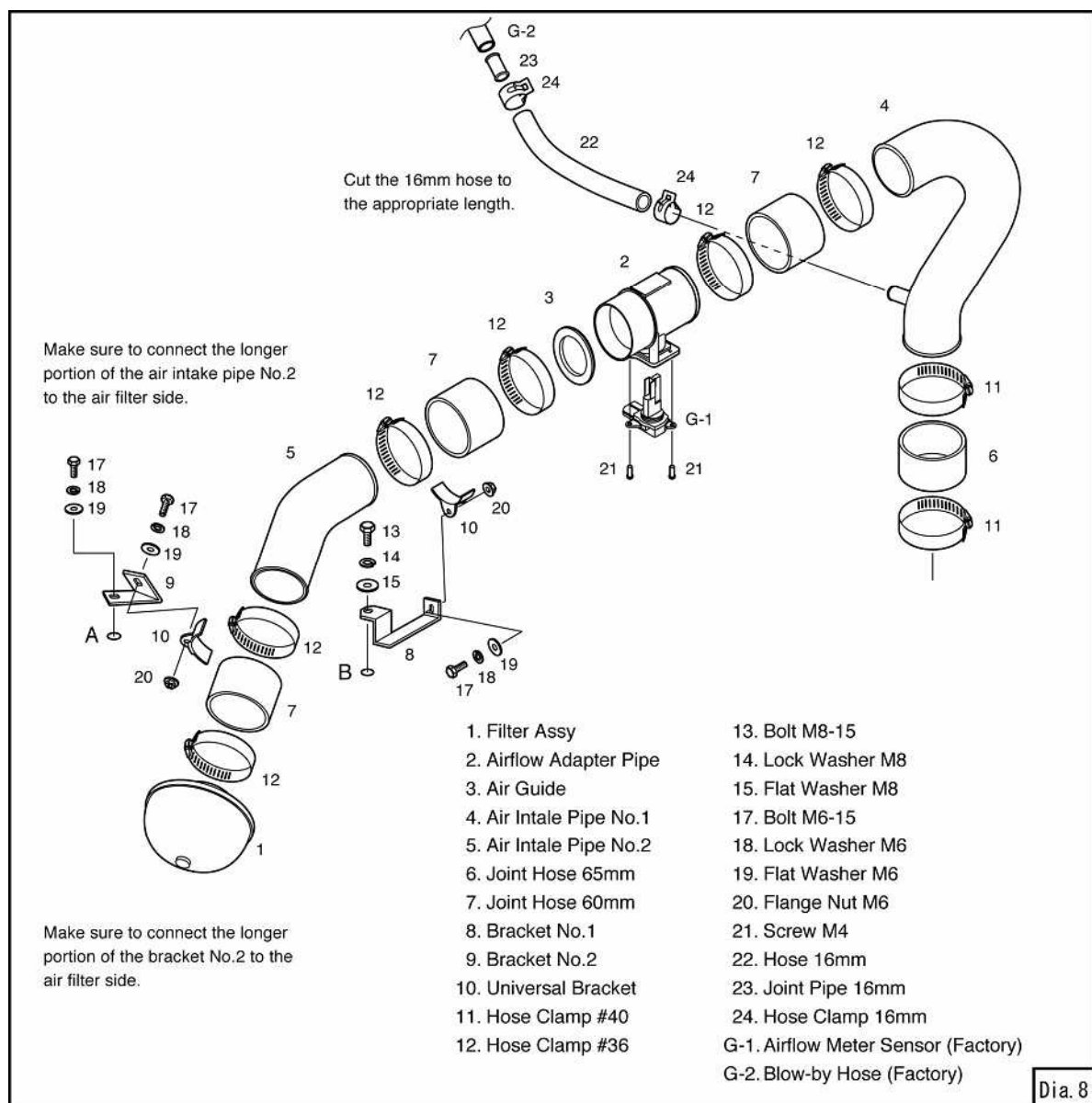
⚠ CAUTION

Do not remove the airflow adapter attachment.
The seal can become degraded, which can lead to engine trouble or damage.

- 2) Temporarily install the bracket No.1 to section B, the bracket No.2 to section A. (Dia.7, Dia.8)



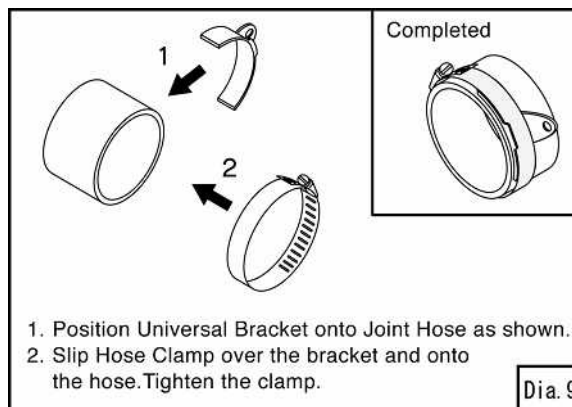
- 3) Temporarily install kit parts. (Dia.7, Dia.8, Dia.9)



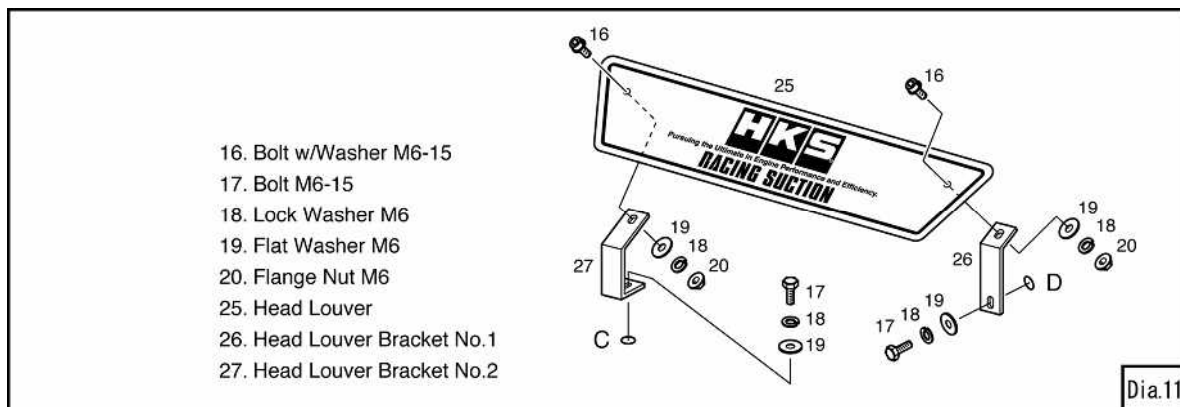
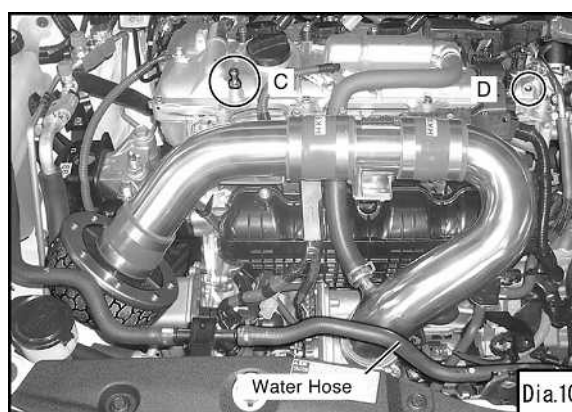
- 4) Position the intake assembly on the vehicle avoiding unnecessary contact with other parts of the vehicle. Once the position is determined, secure the intake assembly to the vehicle using the supplied hose clamps and bolts. Do not over-tighten the clamps and bolts. (Dia.10)

ADVICE:

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



- 5) Reconnect the airflow meter sensor connector.
- 6) Secure the factory water hose to the appropriate section using the provided tie wraps. (Dia.10)
When tying the hose, make sure not to pinch the hose.
- 7) Remove the stud bolt from the section C. (Dia.10)
- 8) Install the head louver. (Dia.10, Dia.11, Dia.12)



- 9) Reconnect the cable terminal to the negative terminal of the 12V accessory battery.



Confirmation After Installation

Check the following after the installation process is complete.

(1) Check the following before starting the engine:

- Make sure pipes and hoses are routed and connected correctly.
- Make sure hose clamps are tightened.
- Make sure the negative cable terminal is securely connected to the battery.
- Make sure all bolts and nuts are tightened.
- Make sure all installed components do not come in contact with other parts.

(2) Start the engine and check the following:

- Make sure air is not leaking.
- Make sure the RPM rises smoothly when revving the engine 2-3 times while in neutral.
- Make sure the installed parts are not hitting each other.
- Make sure there are no idling issues.
- Make sure there are no loose parts once the engine is off.











MAINTENANCE











Proper daily 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.
- If the vehicle gets damaged, have the repairs performed by a professional.
- If you experience any abnormal noises, scents, or vibrations from the vehicle while driving, reference the vehicle's Owner's Manual.
- If this product is ever re-sold, please give this Instruction Manual to the new owner.
- When removing this product from the vehicle, please consult a professional.

PARTS LIST

No.	Description	Qty	Image	Remarks
1	Filter Assy	1		150-60
2	Airflow Adapter Pipe	1		
3	Air Guide	1		
4	Air Intake Pipe No.1	1		
5	Air Intake Pipe No.2	1		
6	Joint Hose	1		65mm
7	Joint Hose	3		60mm
8	Bracket No.1	1		
9	Bracket No.2	1		
10	Universal Bracket	2		60mm

No.	Description	Qty	Image	Remarks
11	Hose Clamp	2		#40
12	Hose Clamp	6		#36
13	Bolt	1		M8-15
14	Lock Washer	1		M8
15	Flat Washer	1		M8
16	Bolt w/Washer	2		M6-15
17	Bolt	5		M6-15
18	Lock Washer	7		M6
19	Flat Washer	7		M6
20	Flange Nut	4		M6

No.	Description	Qty	Image	Remarks
21	Screw	2		M4-6
22	Hose	1		16mm
23	Joint Pipe	1		16mm
24	Hose Clamp	2		16mm
25	Head Louver	1		
26	Head Louver Bracket No.1	1		
27	Head Louver Bracket No.2	1		
28	Tie Wrap	5		
29	Sticker	1		
30	Instruction Manual	1	