

Premium Suction Intake Kit Installation Manual

NAME OF PRODUCT	PREMIUM SUCTION INTAKE KIT
PART NUMBER	71008-AF010
APPLICATION	SUBARU ①IMPREZA WRX STI A-Line 5Door (CBA-GRF) ②IMPREZA WRX STI A-Line 4Door (CBA-GVF)
ENGINE	①, ② EJ255
YEAR	① 2009/2- , ② 2010/7-
REMARKS	<input type="radio"/> This kit is only for vehicles equipped with a 2.5liter turbocharger. <input type="radio"/> This kit is an air cleaner for automobile engines. To maintain performance, replace the air filter element at regular intervals.

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 service manual. To avoid injury, follow the safety precautions contained in the factory service manual.

- This manual indicates items you need to pay attention to in order to install this product safely and lists precautions to avoid any possible damage and/or accidents.
- HKS will not be responsible for any damage caused by incorrect installation and/or use of this product.
- HKS will not be responsible for any labor expenses, related fees or losses incurred during vehicle downtime.
- This product was designed based on installing it onto a factory vehicle. The performance and/or safety cannot be guaranteed if this product was installed onto other inapplicable vehicles.
- The specifications of this product are subject to be changed without notice.
- This manual is subject to be revised without notice.
- For any lost parts, consumables or manual, please contact an Authorized HKS Dealer.

SAFETY PRECAUTIONS

WARNING

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

CAUTION

- Do not misuse this product.
 - Misuse of this product may lead to engine damage.
 - Misuse of this product may lead to loss of its 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 impact. 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). When reinstalling the removed factory parts, make sure to reinstall them correctly.

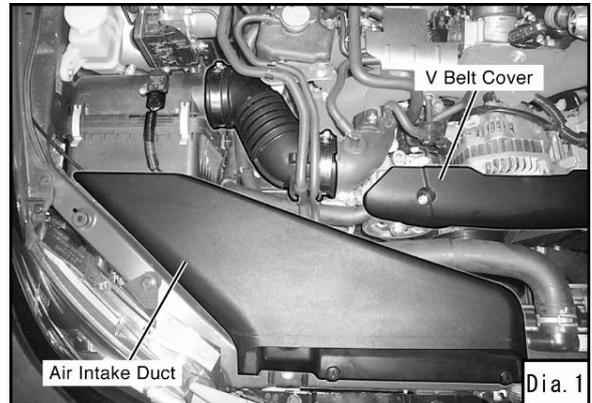
CAUTION

- Replace the air filter element at regular intervals:
(Recommended) Replace every 5,000Km/3,100miles or every 6 months. Replacement air filter elements are sold separately.
 - ※ Do not wash the air filter elements as the filtration properties will be degraded.
 - 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 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 faulty conditions.**

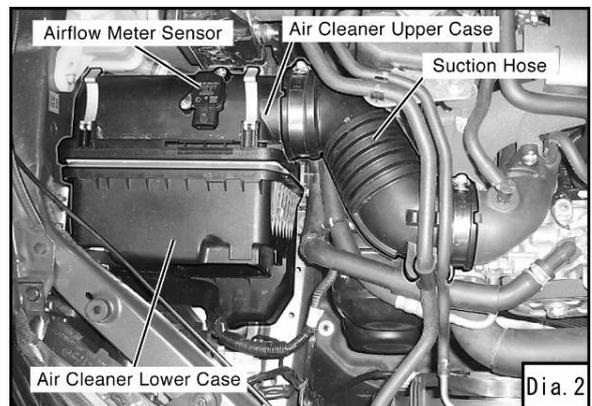
INSTALLATION PROCEDURE

1. REMOVAL OF FACTORY PARTS

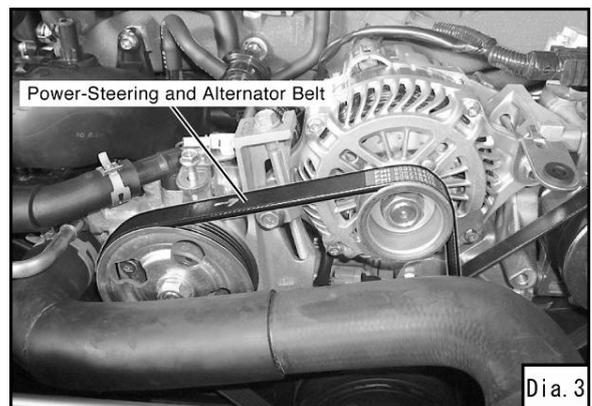
- 1) Disconnect the negative terminal of the vehicle's battery.
- 2) Remove the air intake duct. (Dia.1)
- 3) Remove the V belt cover. (Dia.1)



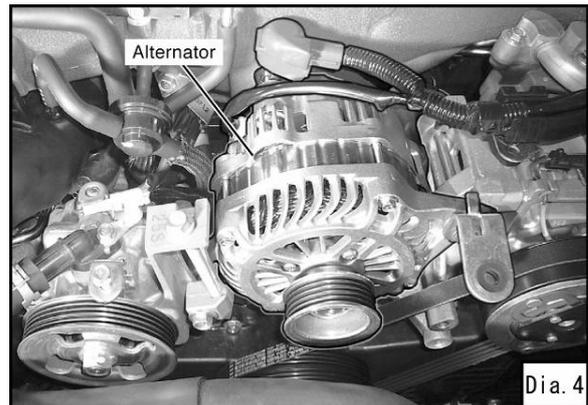
- 4) Loosen the hose clamps and remove the suction hose. (Dia.2)
- 5) Disconnect the airflow meter connector and remove the upper air cleaner case with the airflow meter sensor. (Dia.2)
- 6) Remove the air filter element. (Dia.2)
- 7) Remove the bolt and nut; then, remove the lower air cleaner case. (Dia.2)



- 8) Remove the "power-steering and alternator belt". (Dia.3)



- 9) Disconnect the connectors from the alternator. (Dia.4)
- 10) Remove the bolts and remove the alternator. (Dia.4)
- 11) Disconnect the connector from the power-steering pump. (Dia.4)

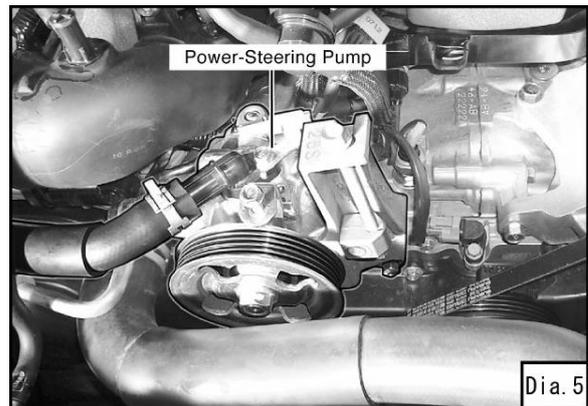


- 12) Remove 3 bolts from the bracket, and remove the power steering pump and bracket together. (Dia.5) It is not necessary to remove the power steering pump piping, but temporarily relocate the piping within the area where there is no excessive stress on the piping. (Dia.6)

ADVICE:

The lengths of the 3 bracket bolts are different. These bolts will be reused when reinstalling the power steering pump. Mark the bolts to make sure they are used in the proper locations during reinstallation.

If the bolts cannot be easily removed, complete step (13) before removing the bolts.

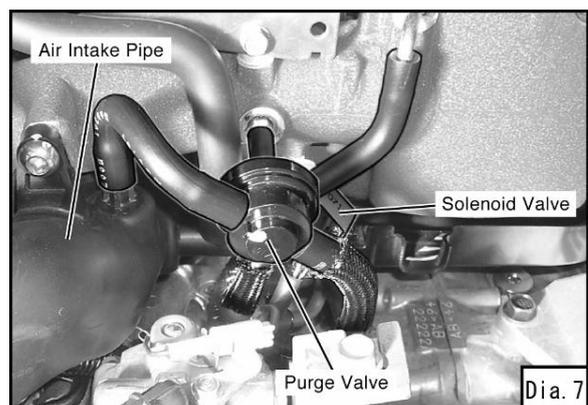


Cover the power steering pump with a cloth to prevent damage to the pump when temporarily relocated.



- 13) Remove the connector and hoses, and remove the purge valve and solenoid valve. (Dia.7) (Mark the hose ends for correct reinstallation.)

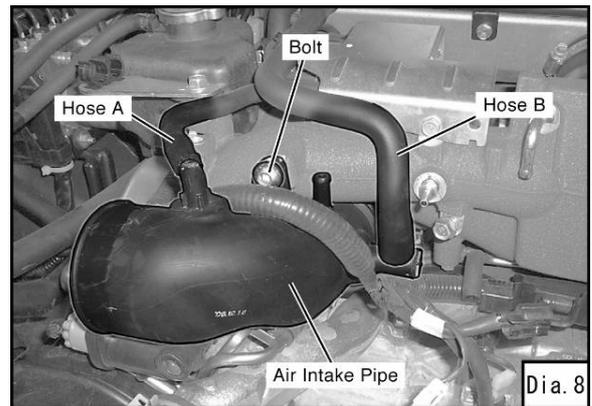
Make sure not to disconnect the water and/or fuel pipes when removing hoses.



14) Remove hoses A and B from the air intake pipe.
(Dia.8, 9)

15) Loosen the bolt. (Dia.8)

16) Loosen the hose clamp securing the turbo inlet side
of the air intake pipe.

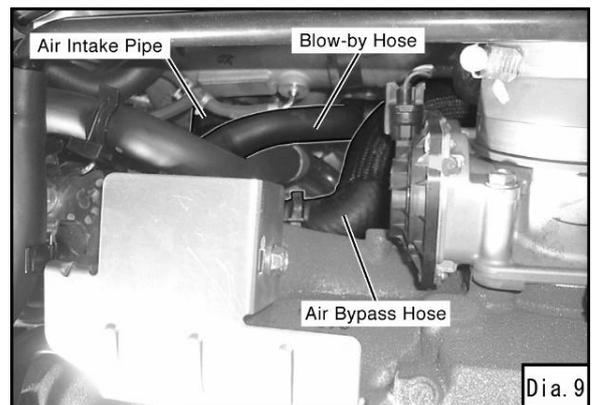


17) Remove the intake manifold mounting bolts and nuts.

18) Remove the air bypass hose and remove the air
intake pipe while slightly holding up the intake
manifold. (Dia.9)

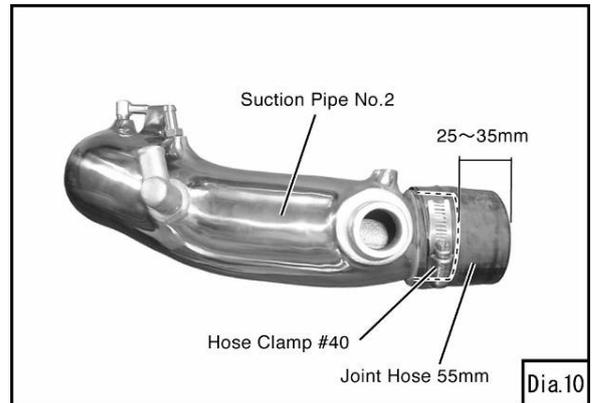
19) Disconnect the blow-by hose from the engine side.
(Dia.9)

ADVICE:
For easier installation, remove the intercooler.



2. INSTALLATION OF THE KIT

- 1) Install the Joint Hose 55mm to the suction pipe No.2 using the provided Hose Clamp #40. (Dia.10)
- 2) Attach the sponge tape to portions of the fuel pipes or intake manifold where the suction pipe No.2 may come in contact.
- 3) Temporarily install Suction Pipe No.2.

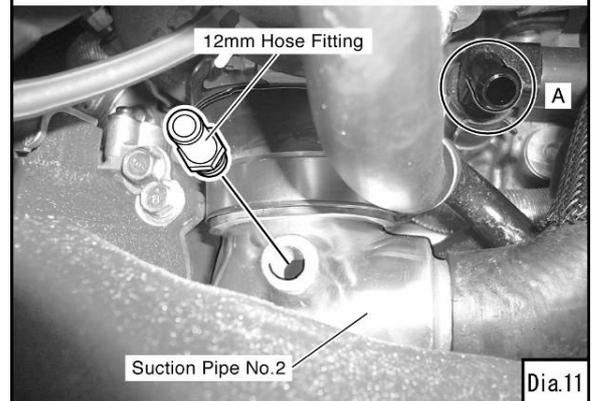


- 4) Install the supplied 12mm hose fitting. To prevent air leakage, wrap the threaded section with Teflon tape. (Dia.11)

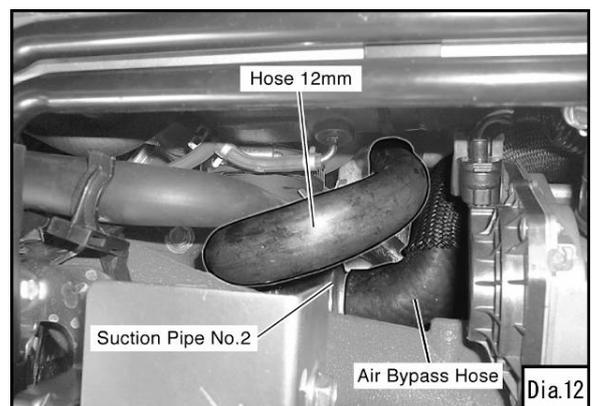
Advice: After tightening the hose fitting by hand, tighten it another one to two turns with an appropriate tool. (It is not necessary to tighten the fitting to the point where the nuts touches the pipe.)

To prevent air leakage, wrap the threaded section with Teflon tape.

After tightening the hose fitting by hand, tighten it another one to two turns with an appropriate tool. (It is not necessary to tighten the fitting to the point where the nuts touches the pipe.)



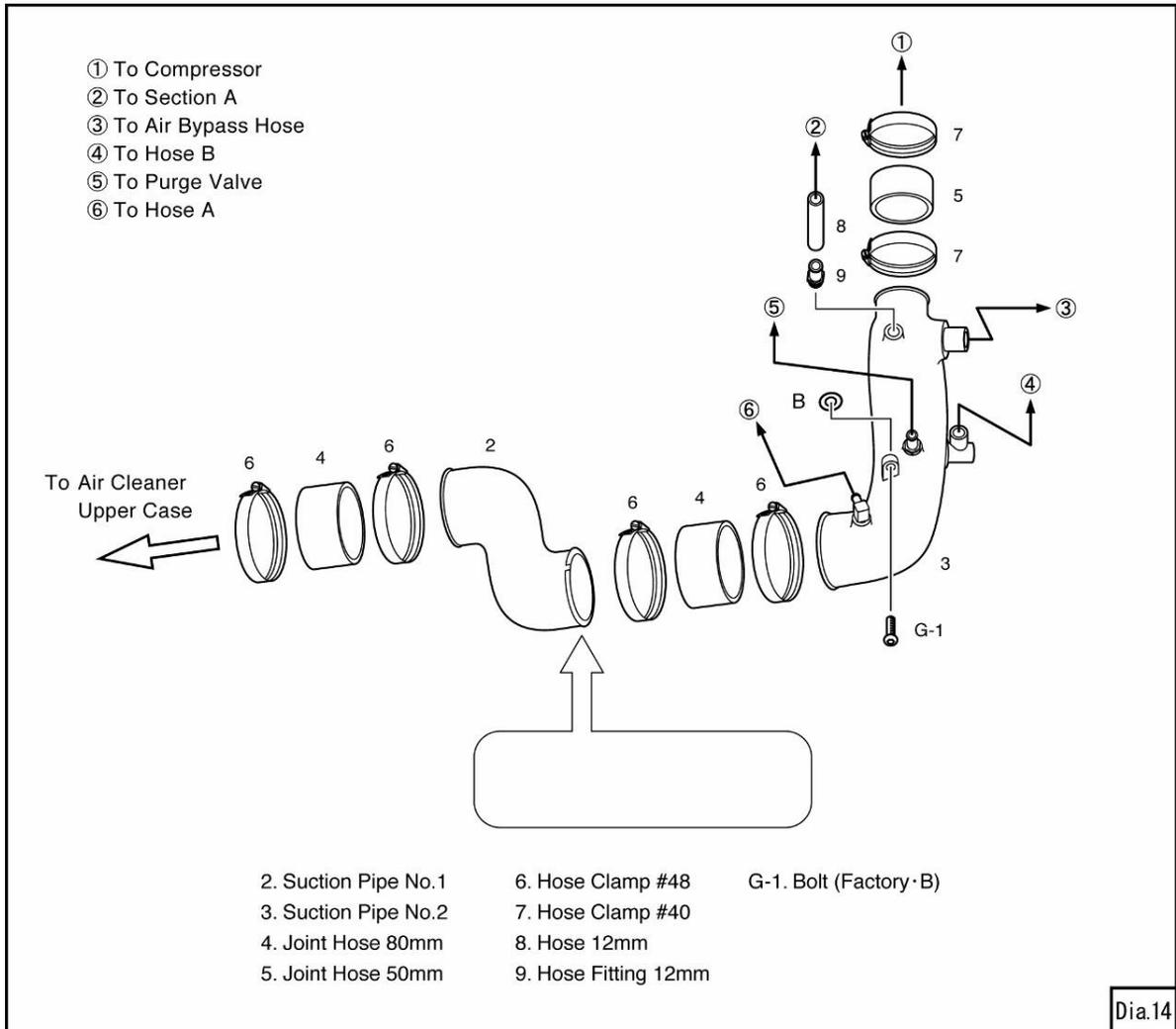
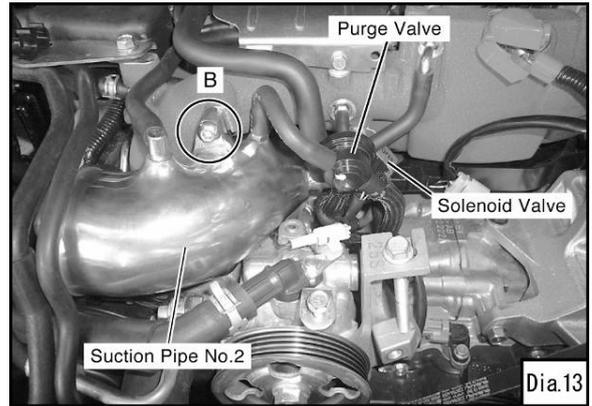
- 5) Connect the 12mm hose fitting to "A" using the 12mm, hose. (Dia.11, 12) Cut the 12mm hose to the appropriate length before use.



- 6) Install the air bypass hose. (Dia.12)

- 7) Reinstall the power-steering pump to its original position; then, reconnect the connector.

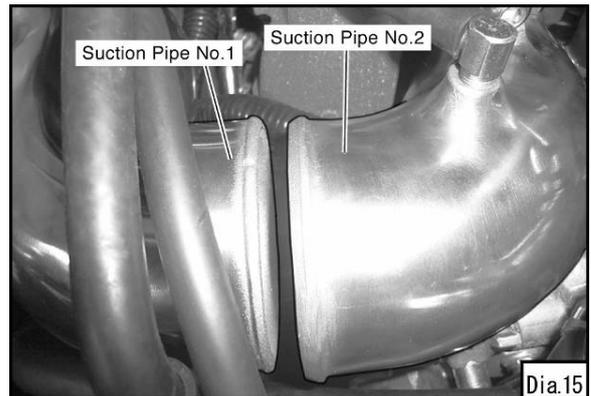
- 8) Position suction pipe No.2 to the vehicle avoiding unnecessary contact with other parts of the vehicle. Once the position is determined, secure the assembly to the vehicle using the supplied hose clamp and bolt. Attach the sponge tape where the kit parts and/or the heat insulator may come in contact with any other vehicle's parts.
- 9) Reinstall the solenoid valve and purge valve; then, reconnect hoses and connectors. (Dia.7, 13)
- 10) Reinstall the alternator; then, reconnect connectors.
- 11) Reinstall the power steering belt and alternator belt. Adjust the belt tension to the factory specifications.
- 12) Reinstall the V belt cover. (Dia.1)
- 13) Install the kit parts. (Dia.14)
Reinstall the lower air cleaner case, Super Hybrid Filter, upper air cleaner case to the vehicle.



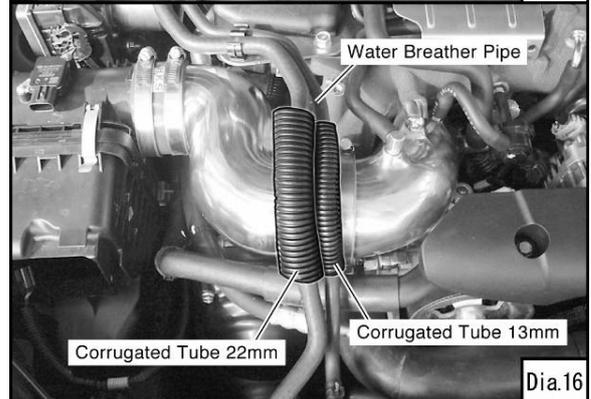
Make sure the notch on Suction Pipe No. 1 faces upward.

ADVICE:

Make sure there is approximately 10mm clearance between Suction Pipe No.1 and No.2. (Dia.15)



- 14) Wrap the water breather hoses with the Corrugated Tubes and secure them using tie wraps. (Dia.16)



- 15) Reconnect the airflow meter connector.

- 16) Reinstall the air intake duct. (Dia.17)

- 17) Reconnect the negative cable to the battery.



CONFIRMATION AFTER INSTALLATION

Check the following after the installation process is complete.

- (1) Check the following before starting the engine:
 - Make sure all pipes and hoses are routed and connected correctly.
 - Make sure all hose clamps are tightened.
 - Make sure the negative cable terminal is securely attached 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 after 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 bolts after turning off the engine. Re-tighten if necessary.

MAINTENANCE

Proper 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 noise, smell, or vibration from the vehicle while driving, reference the vehicle's Service 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	Super Hybrid Filter	1		
2	Suction Pipe No.1	1		
3	Suction Pipe No.2	1		
4	Joint Hose	2		80mm
5	Joint Hose	1		55mm
6	Hose Clamp	4		Bead Type #48
7	Hose Clamp	2		Bead Type #40
8	Hose	1		12mm L=300mm
9	Hose Fitting	1		12mm
10	Corrugated Tube	1		13mm
11	Corrugated Tube	1		22mm
12	Tie Wrap	5		
13	Sponge Tape	5		
14	Sticker	1		
15	Instruction Manual	1		
16				