

FSI/TSI BOOST ADAPTOR

INSTRUCTION MANUAL

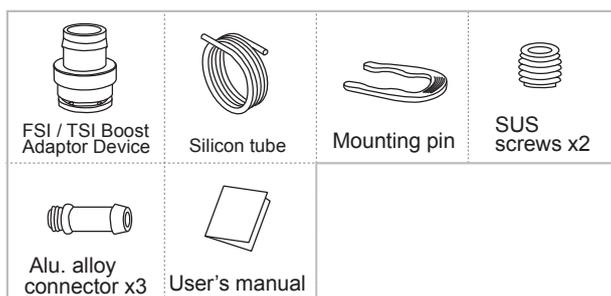
SW-40019

Welcome in using our products

Thank you for your purchasing Shadow FSI/TSI Boost Adaptor. Please read the products manual carefully before using it.
Please visit our website: <http://www.shadowmotor.com.tw> so you will get to know more about the products update as well as technical support and services.

CONTENTS

(the following pictures may be different from reality and they are only for reference)



CHARACTERISTICS

- Specially designed for FSI/TSI engine.
- Safety pin in design without worrying high pressure tube in falling off.
- Comes with 3 spare vacuum connectors for expansion.
- Connect to turbo pressure sensor without damaging the original car structure in design.
- Adopts Alu. alloy, artistic in good taste.
- Anodized surface treated with fine weather resistance.
- Easy installation by DIY is possible.

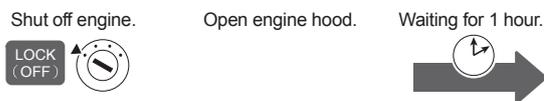
IMPORTANT

- **Please read the manual carefully before installing Shadow FSI/TSI Boost Adaptor Device.**
- **Never work in a poor air ventilation space.**
It might cause carbon monoxide toxic and cause injury.
- **Please shut down the engine before starting installation.**
Or else, the pulling off of piping shall cause malfunction and computer indicator in lighting up.
- **Never reform or rebuild the device by self.**
It may cause unexpected result and safety of the product.
- **Never apply excessive force on to the product after installation completed.**
Please plug-and-play properly. The improper force applied shall cause piping broken or damaged.
- **Please consult the professional expert or deal in case problem occurs.**
The installation would require professional technician in performance. Please consult the professional or dealers if question arises.
- **The trouble as caused due to incorrect installation procedure shall be out of warranty, such as damaging the inner parts, etc.. Those injury or property loss due to incorrect usage shall be exempted from our responsibility or compensation.**

CAUTIONS

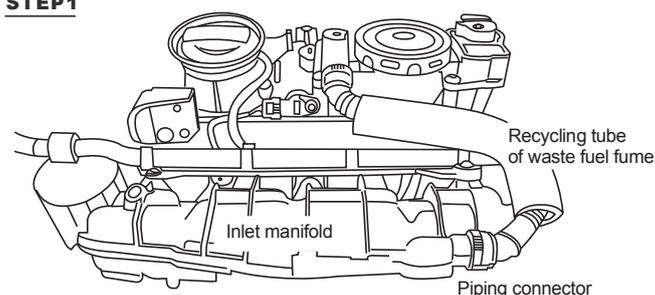
- **Please install after 1 hour of waiting.**
The shut-down engine would still in high temperature which could cause burnt on touching.
- **Please wear thermal insulated gloves when in installing.**
The thermal insulated gloves prevents hands from being burnt as well as stuck by sharp objects.
- **The device is only applied on VAG series vehicles that with FSI/TSI engine.**
It is not applicable to other VAG engines, such as TDI diesel.
- **Make sure to connect the piping firmly.**
Safety pins are attached on the device. Please check if every pin is in correct position.

Preparation of installation

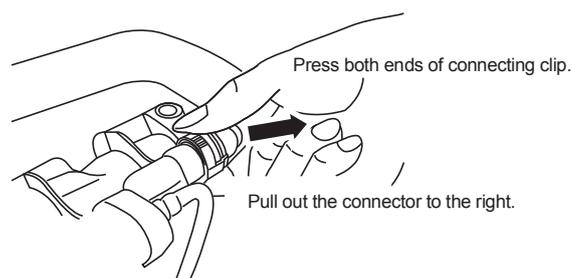


Start installing

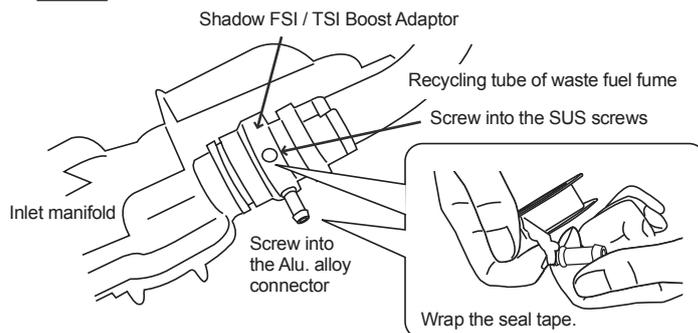
STEP 1



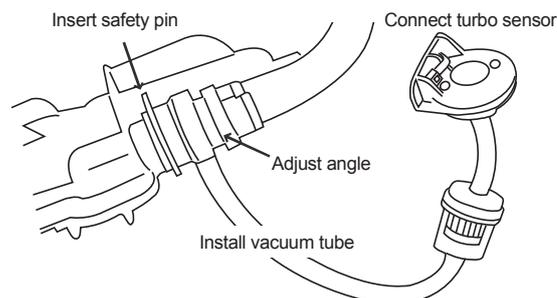
STEP 2



STEP 3



STEP 4



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PRODUCT DESCRIPTION

Shadow FSI/TSI Boost Adaptor

Specification	Material: Alu. alloy Surface treatment: anodized
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Turbo engine is to enforce the air pressure as generated sucking into the cylinder than that of the natural inlet air so as to increase the engine efficiency; where the pressure in applying is called the turbo pressure value. The observing of the turbo pressure in real time can tell if the turbo engine is in normal working condition; the leakage of piping system can be inspected by this figure. As the working condition of turbo engine is much strict than that of the natural air inlet that various vacuum piping are used to monitor the working condition as well as in controlling the surrounding auxiliary system in function, such as Blow Off, Actuator etc. Besides, more vacuum piping reveal more chances in leakage than that of the natural air inlet vehicles, and which causes unstable idling and lower negative pressure; even unable to reach normal turbo pressure under full throttling as well as the black smoke problem, etc. Thus, it is important to monitor the performance of the turbo pressure value by installing turbo gauge.

Even though it is the best method in monitoring the vehicle condition by installing turbo gauge, it is not possible to realize that in a FSI/TSI engine of VAG vehicle as there is no location available as reserved in the original manufactured vehicles for turbo sensor. Therefore, a special purpose Alu. Alloy T-Tube was developed for FSI/TSI engine. With little time and techniques by installing it on the rubber tube between inlet manifold and waste fuel recycling vale, and connecting the turbo sensor by the tube attached that the turbo gauge can be installed easily and the turbo pressure can be obtained immediately without destroying the original vehicle fixture.

Troubleshooting

Please check up following troubleshooting table for remedy if problem occurs during installation:

symptoms	Cause	Trouble shooting
Unable to pull off the connector	Improper pulling point applied	Two clippers on the connector for waste fuel fume recycling can only be pulled off by pressing on the proper position with sufficient force
Unable to connect T-Tube to the original piping system	Large/ small end of tube in opposite	Please make sure the large opening end of T-Tube should be heading to the inlet manifold; while small opening should be heading for the waste gas recycling tube. Check and connect the positive connection
Safety pin is unable to be inserted into the mounting hole.	T-Tube has not pushed to the correct position.	Please make sure if the O-ring in the T-Tube has fallen off or it has been pushed to the end of left.
Piping falls off after engine started up	Recycling tube of waste gas not installed to the correct position.	Please make sure if the recycling tube of waste gas has been locked on the clipping ring on the T-Tube correctly.

Please collect all accessories as well as device and send to dealer if the product requires maintenance or warranty service.

