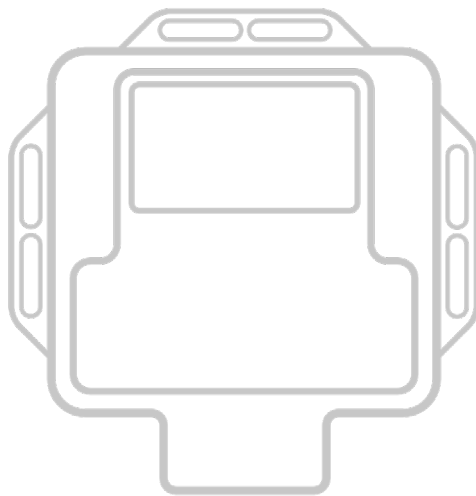




VPC-System

Installation instructions

3187



ENG90010

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Scope of delivery

- Tuning module
- Harness
- Fixing set
- Installation instructions

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Preliminary

This tuning system is specifically customized and programmed for your vehicle. Due to production variations of engines in general, the expected result of the tuning system can turn out differently (higher or lower). Also, the increased performance always depends on the maintenance condition and mileage of the vehicle.

If the power is too high, shown by a strong soot formation, disturbed engine run, engine misfire or the initiation of the engine emergency, you can fine-adjust the system. (see chapter "Programs").

IMPORTANT: When changing the program in this case, contact your dealer or the manufacturer!

General instructions

Read this installation guide carefully before starting the installation so that you will be able to use all the technical advantages of the systems and do not start with the installation before you have read and understood the instructions.

If you comply with the advice given below (1) you will avoid an early termination of the product guarantee and you will be enjoying your product for years to come.

(2) Never install the system if the ignition is on. Pull the ignition key.

(3) After switching off the ignition, wait for 5 minutes until all electric devices are turned off.

(4) If possible, install the module in a dry area in the engine compartment. Humidity and wetness contain minerals which cause corrosion to the electronic circuits. Fix the harness and protect it from humidity.

①



Note the following hints!

②



Switch off the ignition!

③



Wait 5 Minutes.

④



Install splash proof!

⑤



Attention when
Engine wash!

⑥



No installation
on hot engine parts!

⑦



Do not make any changes!

⑧



Disregard may
cause malfunction!

(5) Before every engine wash, remove the entire tuning system.

(6) Do not fix tuning systems to engine parts that could heat up. Never fix the module directly or close to the engine (engine block). High temperatures can reduce the lifespan of electronic devices and can deform or melt specific plastics materials.

(7) Take care that the harness does not touch the parts in motion and the metal parts to avoid friction. Do not make any changes to the harness (do not make it any longer or shorter).

(8) In case of the malfunctioning of the system due to any non-compliance with the instructions during the installation of the tuning modules, the product guarantee will be terminated.

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Installation

Localise the injection pump. Open the 9-pole connecting plug at the injection pump and connect the cable harness of the VPC module with the connector of the injection pump.

Move the cable adaptor not in parallel with injection pipelines or ABS-control device connecting leads. Keep to very big distances. Fix the cable harness with cable ties.

Connect the VPC module to the cable harness. The module should be obstructed possibly against warmth and splash water protected.

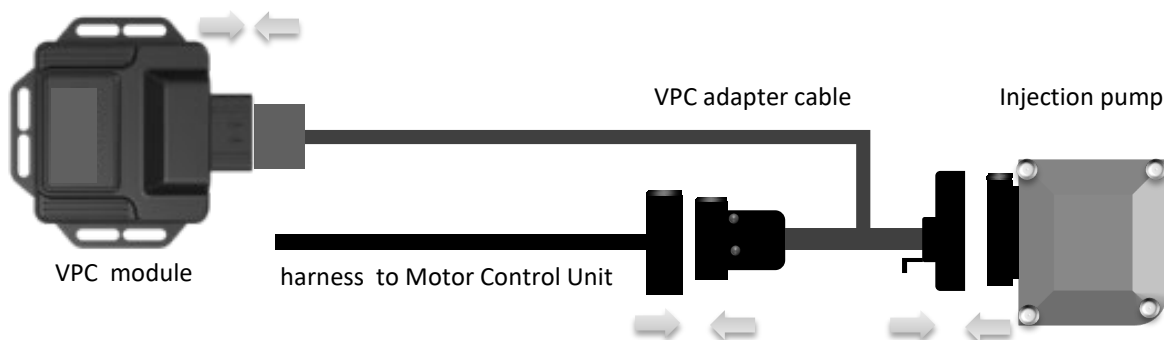
The module is preset on the vehicle and needs no other change of the settings. Now the vehicle is ready for a test run.

The Performance tuning can obtain a different result throughout the series. It's possible that the engine power turns out to be too high or too low. If the power should be too high, it is shown by a strong soot generation, disturbed engine run, engine misfire or the initiation of the engine emergency program.

Once jumper 1 is removed you can also do the fine-tuning with the potentiometer. With fine-tuning these problems can be resolved. Jumper 2, 3 and 4 are not used.

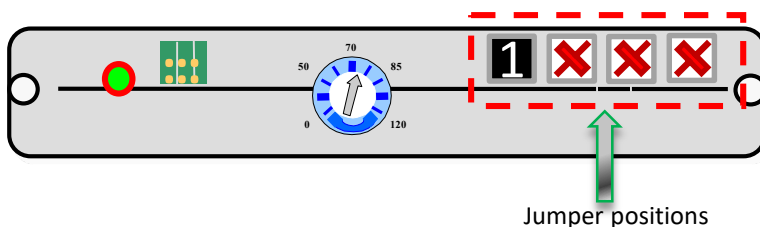


You still have questions or you are not quite sure?
Contact us, a technician will gladly help you!



Jumper settings

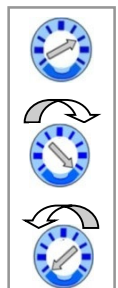
Potentiometer



Series settings
(+20% supererogation).

To increase the curve turn the
potentiometer clockwise.
Drive extensively test.

In order to reduce the curve, turn
the potentiometer counter clockwise.



Installation instructions

Error descriptions*	Problem solution
„The engine doesn't start.“	▪ Check all connected components. ▪ Are the adapter plugs in the right position? ▪ Are the Jumpers positioned correctly?
„The engine doesn't run smoothly. The engine is bucking.“	▪ Check all connected components. ▪ Are the adapter plugs in the right position?
„The fail-save program runs immediately. The Malfunction Indication Light (MIL) flashes in the Instrument Cluster.“	▪ Check all connected components. ▪ Are the adapter plugs in the right position? ▪ Lower the performance by turn the potentiometer counter clockwise (mm-steps). ▪ Error persists > Contact the vendor / manufacturer
„The fail-save runs in higher RPM.“	▪ Check all connected components. ▪ Are the adapter plugs in the right position? ▪ Lower the performance by turn the potentiometer counter clockwise (mm-steps).
„The engine shows no extra performance.“	▪ Raise the power by turn the potentiometer clockwise (mm-steps).
„The engine produces too much soot.“	▪ Lower the performance by turn the potentiometer counter clockwise (mm-steps).
„How can I get back to the original performance of the engine?“	▪ Turn the ignition off. Wait, until all electric power consumers are switched off. Remove the complete system (VPC-module and VPC adapter). The car is now back in stock performance.

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Installation example



Open the engine hood.



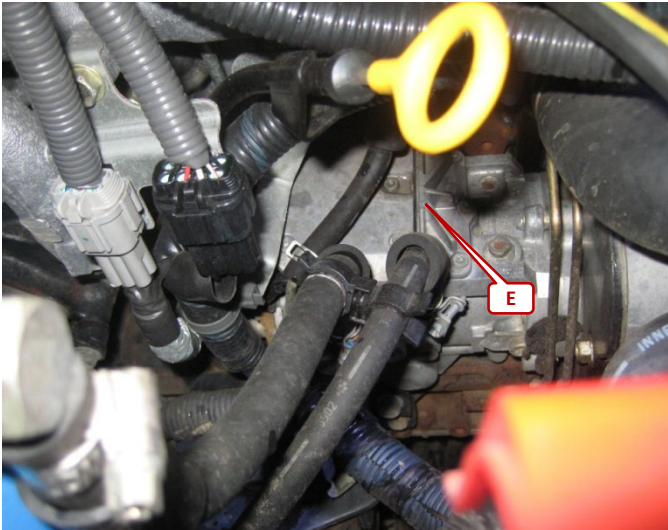
Remove the engine cover (**D**).



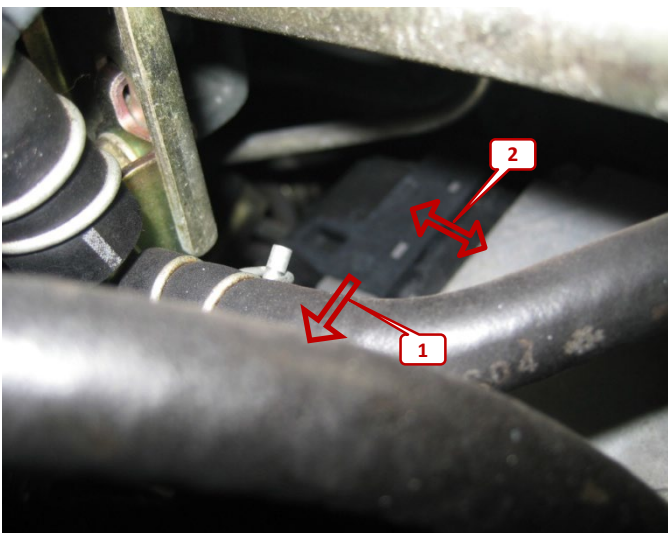
Localise the injection pump (**E**). It is located under the engine cover on the left side, behind the engine.

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Installation example



Here you can see the injection pump (E).



At first you have to unlock the VPC plug (1).
Then you can remove the VPC plug (2).

Open the 9-pole connecting plug at the injection pump and connect the cable harness with the connector of the injection pump (E).

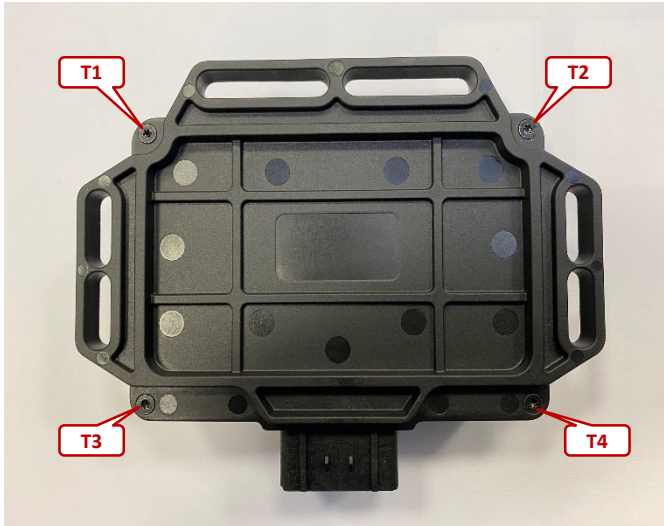


Move the cable adaptor not in parallel with injection pipelines or ABS-control device connecting leads. Keep to very big distances. Fix the cable harness with cable ties. Connect the VPC module to the cable harness. The module should be obstructed possibly against warmth and splash water protected.

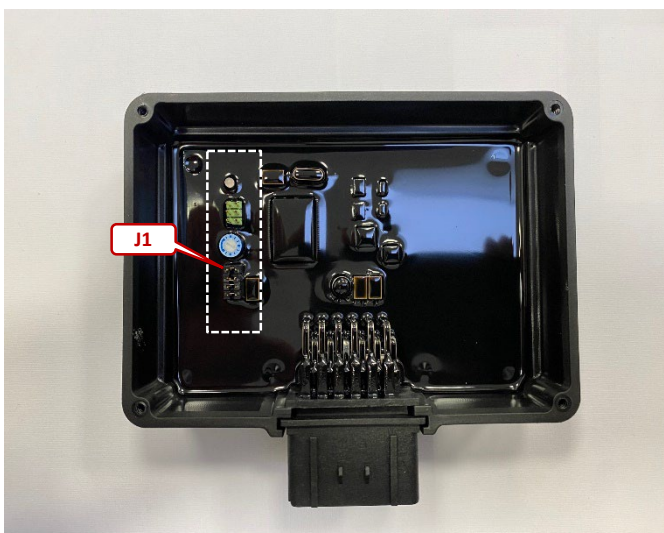
The module is preset on the vehicle and needs no other change of the settings.
Check all connections again and reassemble the vehicle in reverse order.

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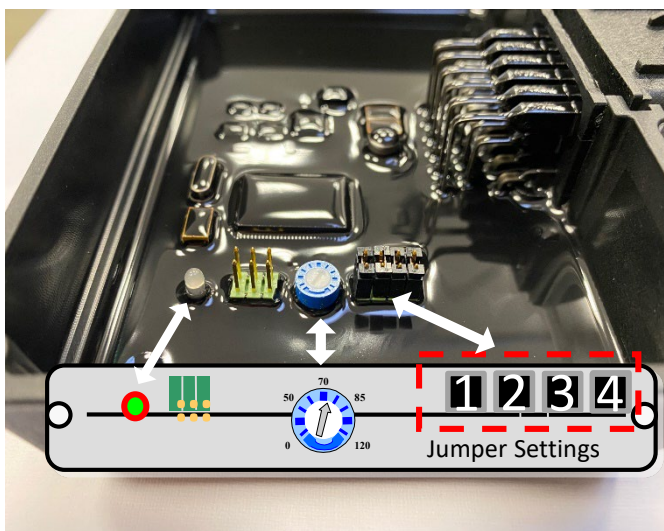
Settings VPC-System



To change the basic settings of the VPC module, solve the 4 Torx screws (**T1** - **T4**) on the back side.



Once jumper 1 (**J1**) is removed you can also do the fine-tuning with the potentiometer. After changing the settings, the Jumper has to be reinserted.



Series settings
(+20% supererogation).

To increase the curve turn the potentiometer clockwise.
Drive extensively test.

In order to reduce the curve, turn the potentiometer counter clockwise.

Drive extensively test!

