

PowerControl

Installation instructions

6309



ENG10032

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Scope of delivery

- Performance Pack
- Harness
- Dummy plug
- Fixing Set
- Sticker
- Installation Instructions

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Preliminary

The Performance Pack is specifically tuned and programmed for your vehicle. Due to production variations, the expected result of the Performance Pack 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 manifests itself: a program change is possible (see page 5). **IMPORTANT: When changing the program contact your dealer or manufacturer!**

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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.

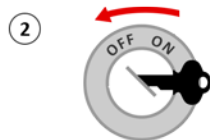
(2) Never install the system if the ignition is on. Pull the ignition key.

(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.



Note the following hints!



Switch off the ignition!



Wait 5 Minutes.



Install splash proof!



Attention when
Engine wash!



No installation
on hot engine parts!



Do not make any changes!



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.

Installation instructions

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Installation

Localise the rail pressure sensor (A), the boost pressure sensor (B) and the camshaft sensor (C). Open each of the connectors and connect the cable adapter with the sensors.

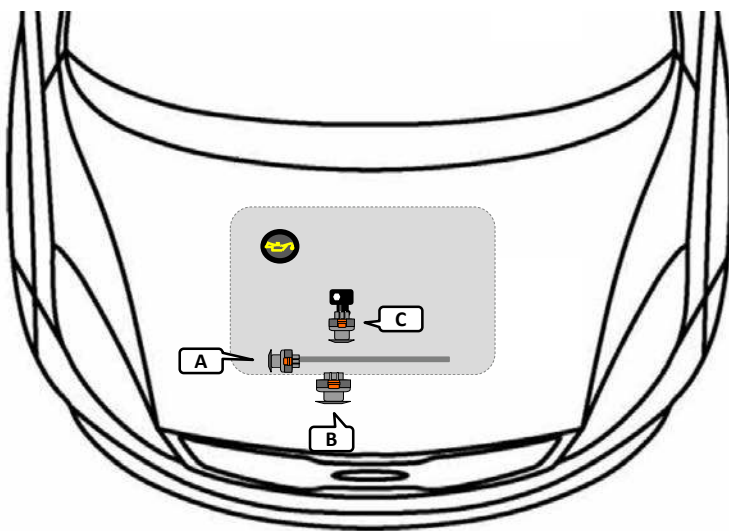
Advice! You can't find the sensors? The 3-pin rail pressure sensor (A) is located on the left side directly at the common rail bar. The 4-pin boost pressure sensor (B) is located in front of the engine. The 3-pin camshaft sensor (C) is located on the top of the engine, behind the common rail bar. Note that you don't connect the adapter cable on other plugs. On the following pages you will find an illustrated guide.

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

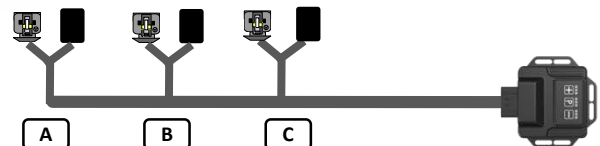
The module should be obstructed possibly against warmth and splash water protected.

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Installation principle



- A** Rail pressure sensor (3 pin)
- B** Boost pressure sensor (4 pin)
- C** Camshaft sensor (3 pin)



cable harness sticker:



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Programs

You purchased a modern Chiptuning system for your vehicle that features DTE Systems' multi-map technology, specially designed for your vehicle and engine type. In the factory setting, the device already has been set-up specifically for your vehicle and engine type and is ready to use.

Remarks

- The system's factory setting is adjusted to fit your personal vehicle, a further adjustment is not required.
- The LEDs are signaling an active tuning system and show the selected program.
- In case of blinking LEDs, the keypad lock is active (Fig. A).

Unlock the keypad

The keypad flashes when tuning is active. Any change requires unlocking the keypad.

To unlock the keypad, you have to press + and – buttons together for 3 seconds. First the 3 red LEDs going to light up, then only the 3 greens will light up and finally both red and green LEDs light up. Release the buttons and the module is unlocked.

Fine adjustments of performance levels

- Engines can have stock tolerances in performance that require an adjustment of the multi-maps.
Important: Only change the multi-maps after consultation of your authorized dealer.
- By pressing the **buttons + or –** every program can be adjusted to the specific characteristics of your vehicle. Colored LEDs indicate the selected performance level. At the maximum 3 red LEDs light up, in the minimum 3 green LEDs light up. /Examples in Fig. A and B)

Fig. A – Example Stage +2

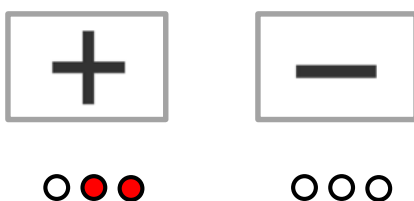
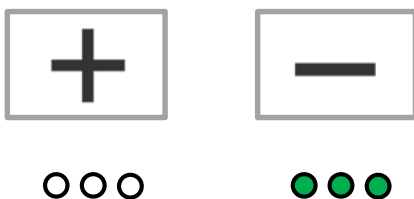


Fig. B – Example Stage -3



Disable Tuning

If the power decrease is at minimum (3 green LEDs lit), press – **Button** once more to deactivate tuning. LEDs will blink fast from right to left before deactivating tuning. No LEDs light up when tuning is inactive.

Enable Tuning

After disable tuning, tuning can be activated again by pressing the – **or + Button** once which will get the module in its minimum state (3 green LEDs lit).

Inactivity of 10 seconds will lock the module again.

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Programs

Your tuning system has the ability to save two separate programs. For more information, contact your dealer.

Switching programs 1 -2

Unlock the module and press the **+** button for 3 seconds program 1 will activate. During this time the 3 red LEDs will blink simultaneously. (Fig. A)

Unlock the module and press the **-** button for 3 seconds program 2 will activate. During this the 3 green LEDs will blink simultaneously. (Fig. B)

Fig. A – Program 1

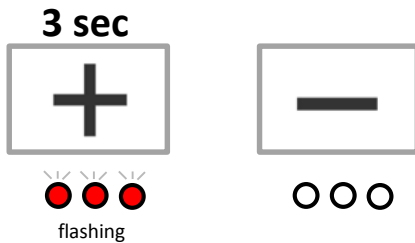
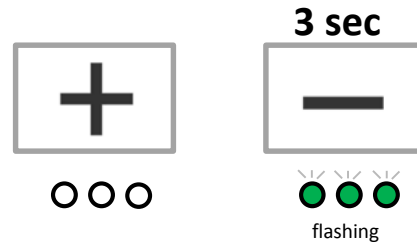


Fig. B – Program 2



Installation instructions

Error descriptions*	Problem solution?
„The engine doesn't start.“	<ul style="list-style-type: none"> ▪ Check all connected components. Are the adapter plugs in the right position? ▪ Is a plug twisted connected? If possible? ▪ Do the LED's work properly (see chapter „Program Changing“)? <p><i>Error persists</i> > Replace module with enclosed blind plugs and start again.</p> <p><i>Error fixed?</i> Module is defective: Contact the vendor / manufacturer</p>
„The engine doesn't run smoothly. The engine is bucking.“	<ul style="list-style-type: none"> ▪ Check all connected components. Are the adapter plugs in the right position? ▪ Has the program been changed?(see chapter „Program Changing“)? ▪ <i>Error persists</i> > Contact the vendor / manufacturer
„The fail-save program runs immediately. The Malfunction Indication Light (MIL) flashes in the Instrument Cluster.“	<ul style="list-style-type: none"> ▪ Check all connected components. Are the adapter plugs in the right position? ▪ Reduce the Performance Pack by one or two levels (see chapter „Program Changing“). ▪ <i>Error persists</i> > Contact the vendor / manufacturer
„The fail-save runs in higher RPM.“	<ul style="list-style-type: none"> ▪ Check all connected components. Are the adapter plugs in the right position? ▪ Reduce the Performance Pack by one or two levels (see chapter „Program Changing“). ▪ <i>Error persists</i> > Contact the vendor / manufacturer
„The engine shows no extra performance.“	<ul style="list-style-type: none"> ▪ To obtain the maximum benefit, use a higher-octane fueled (98 ROZ or higher) ▪ Reduce the Performance Pack by one or two levels (see chapter „Program Changing“). ▪ <i>Error persists</i> > Contact the vendor / manufacturer
„The engine produces too much soot.“	<ul style="list-style-type: none"> ▪ Check all connected components. Are the adapter plugs in the right position? ▪ Reduce the Performance Pack by one or two levels (see chapter „Program Changing“). ▪ <i>Error persists</i> > Contact the vendor / manufacturer
„How can I get back to the original performance of the engine?“	<ul style="list-style-type: none"> ▪ Press and hold the buttons (+) and (-) for three seconds. Your vehicle is now in production configuration. <p><i>or</i></p> <ul style="list-style-type: none"> ▪ Follow the steps below: <ol style="list-style-type: none"> 1. Turn off the ignition. 2. Wait until all electrical consumers are off. 3. Remove the Performance Pack of all connected components or use included dummy plug.

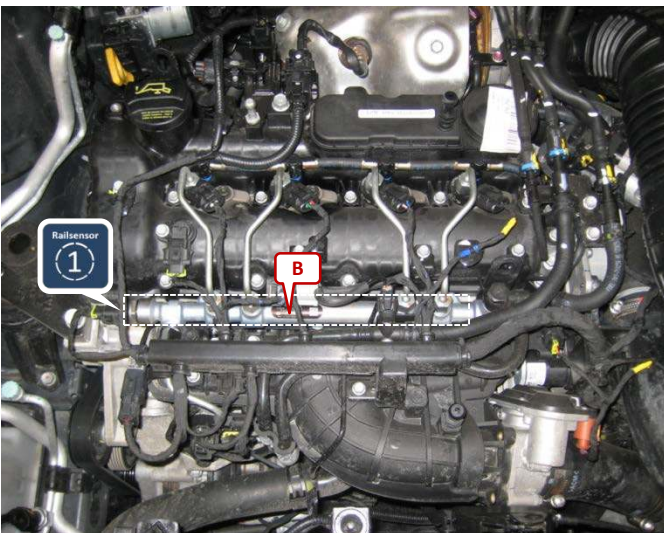
* The fault description applies to both diesel and gasoline engines.

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Installation example



Open the engine hood. Remove the engine cover (**D**). The engine cover is not screwed.



Connection rail pressure sensor:

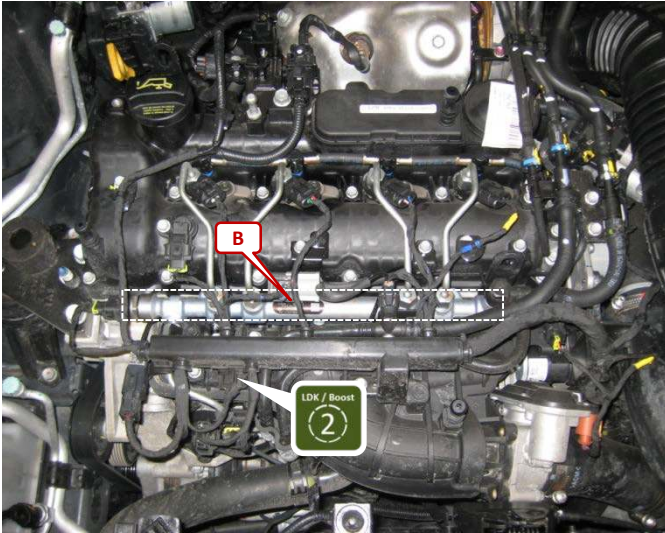
Localise the common rail bar (**B**). The rail pressure sensor is located on the left side, directly at the common rail bar.



To disconnect the rail pressure plug press the locking lever. Connect the rail pressure adapter between the both connections.

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Installation example

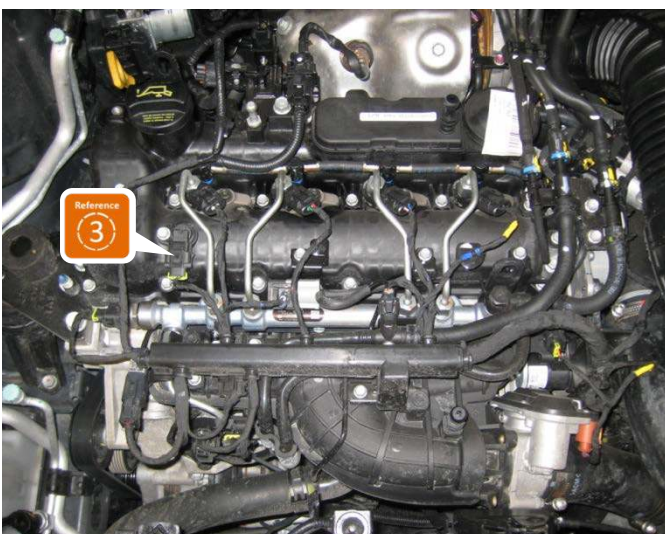


Connection boost pressure sensor:

The 4-pin boost pressure sensor is located in front of the engine, under the common rail bar.



Connect the boost pressure adapter between the both connections.



Connection camshaft sensor:

The camshaft sensor is located on the top of the Engine, behind the common rail bar.

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Installation example



Connect the camshaft signal adapter between both connections.

Move the adapter cable not in parallel with injection pipelines or ABS-control device connecting leads. Keep to very big distances. Fix the adapter cable with cable binders. Connect the module to the adapter cable. Check all connections again and reassemble the vehicle in reverse order.