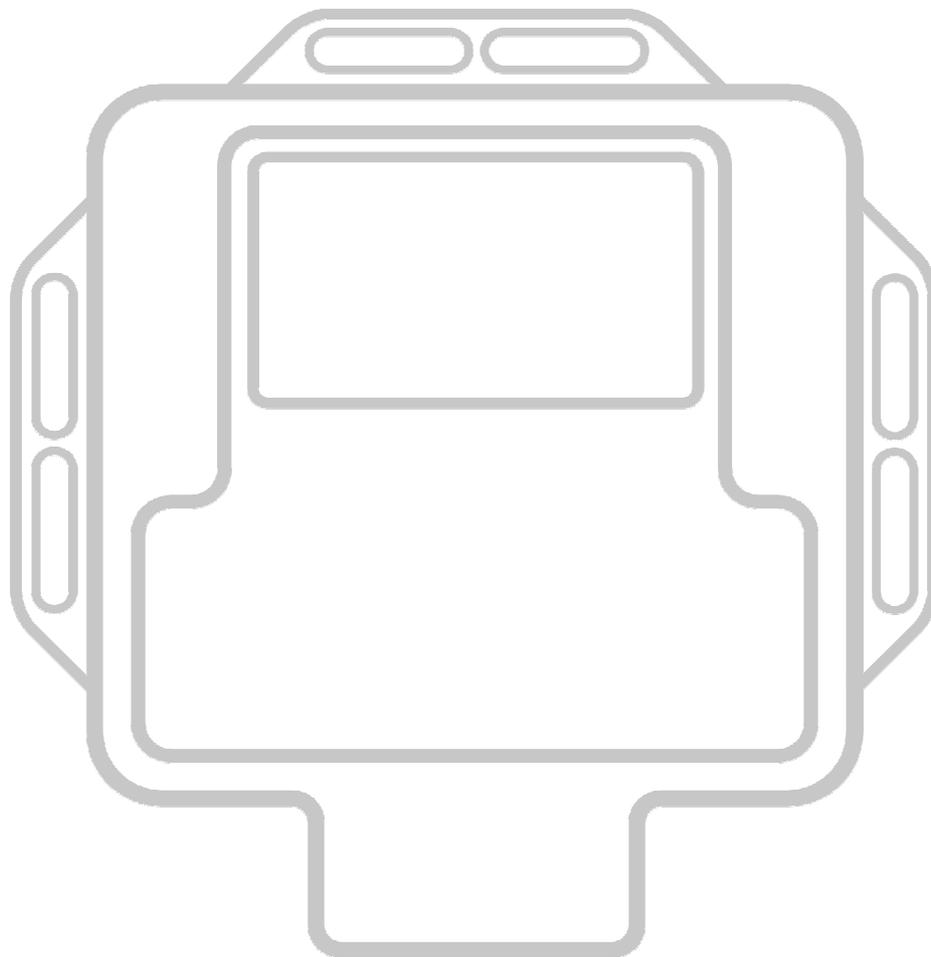


>>

System CRD14-System LRN18 / 10556318



ENG10027

>>

Table of Contents

Scope of delivery / Preliminary	3
General instructions	4
Installation principle	5
Changing Programs	6
Trouble shooting	7
Installation example	8

>>

Scope of delivery

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

>>

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!**

>>

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.

>>

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. Connect the power supply at the vehicle battery.

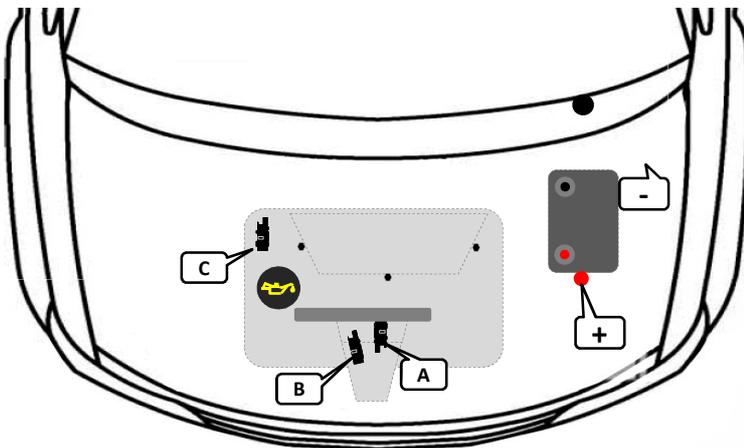
Advice! You can't find the sensors? The 3-pin rail pressure sensor (A) is located in front of the common rail bar. The 4-in boost pressure sensor (B) is located in front of the engine at the intake pipe right next to the common rail sensor. The 3-pin camshaft sensor (C) is located at the rear left side from the engine, behind the oil filler. 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.

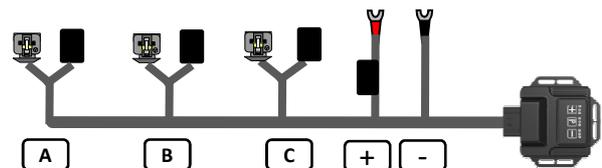
The module should be obstructed possibly against warmth and splash water protected.

>>

Installation principle



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

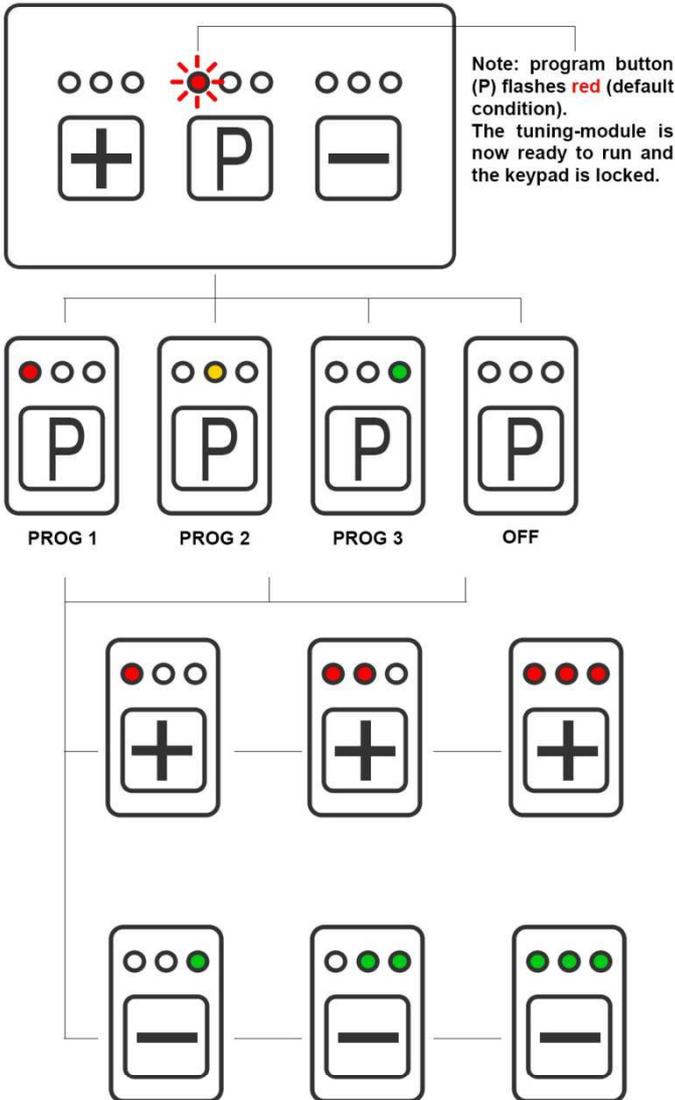


cable harness sticker:



>>

Adjustments



Note: The Performance Pack is vehicle-specific tuned and programmed. A program change is possible, but not necessary!

IMPORTANT: Before changing the program contact your dealer or manufacturer!

Unlock Keypad

Press and hold buttons (+) and (-) for 3 seconds to unlock the Keypad.

Choosing a program

Press button (P) to choose between three preset programs. A LED-light shows you the selected program.

Program modifications

By pressing buttons (+/-) you can increase (+) or reduce (-) the performance (power curve) of the selected program.

Each power curve can be increased or reduced up/down to **three stages**. A LED-light indicates how many steps you **increase (RED)** or **reduced (GREEN)** the power curve.

The factory setting corresponds to the basic setting of the Performance Pack and the power curve (PROG 1-LED always lit. LEDs (+/-) do not light up).

Activation / Deactivation / Saving Settings

Press and hold button (P) for **1 seconds** to deactivate the Performance Pack. The current program and settings are saved automatically.

Press **ANY button** to activated the Performance Pack with the last program and settings.

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.

>>

Installation example



Open the engine hood. Remove the engine cover (D).



Connection rail pressure sensor:

Localise the common rail bar (B). The 3 pin rail Pressure sensor is located in front of the common rail bar.



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

>>

Installation example



Connection boost pressure sensor :

The 4 pin boost pressure sensor is located in front of the engine at the intake pipe right next to the common rail sensor.



Connect the boost pressure adapter in between both connections.



Connection camshaft sensor:

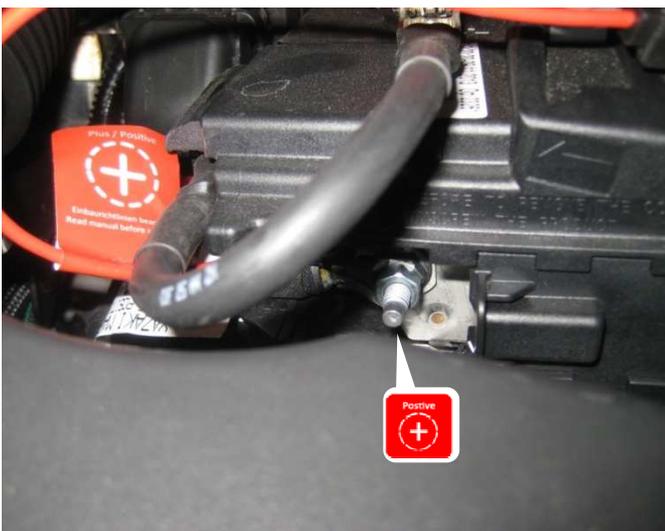
The 3 pin camshaft sensor is located at the rear left side from the engine, behind the oil filler.

>>

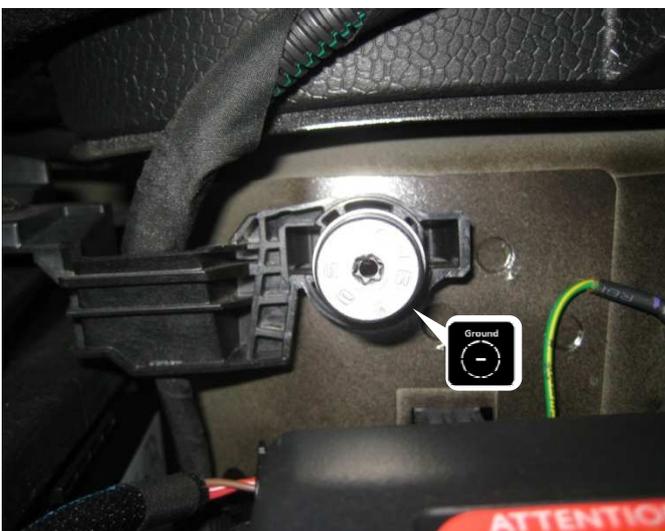
Installation example



Connect the camshaft signal adapter in between both connections.



Localise the vehicle battery. Open the flap in front of the battery case. Behind these flap there is the **+ 12V connection**.



Connect the black cable to the car body mass. Install 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 with the adapter cable. Check all connections again and reassemble the vehicle in reverse order.