



PedalBox Pro

Einbauanleitung // Installation manual



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» Note the barcodes of your PedalBox Pro



Barcode of your
PedalBox Pro

Important:
The barcode of your PedalBox
Pro is also the pairing code
with the PedalBox app



Barcode of your
PedalBox Pro
Remote number 1

Barcode of your
PedalBox Pro
Remote number 2

Barcode of your
PedalBox Pro
Remote number 3

Barcode of your
PedalBox Pro
Remote number 4

4 Remotes
maximally

» Quick start

Never install the system with the ignition switched on. Remove the ignition key. Move Keyless-Go keys out of reach of the vehicle. After switching off the ignition, wait 5 minutes until all electrical power consumers are switched off. Caution: Opening or closing vehicle doors may cause vehicle systems to power up again and should be avoided strictly during installation. To ensure optimum battery life, the Remote goes into sleep mode after 30 seconds (the lightning goes out). A short press on the program button wakes up the Remote and it is ready for operation.

- 1 Disconnect the plugs of the throttle.
- 2 Connect the plugs of the PedalBox with the throttle connectors.
- 3 Mount the Remote in sight.
- 4 Wake up Remote via program button.
- 5 Pair Remote with PedalBox. To do this, press and hold the plus button for several seconds.
- 6 Start PerfectTune (necessary to be able to use immobilizer and limit mode). Hold plus and minus button for 3 seconds. Press your accelerator pedal several times over the entire pedal travel, including 'kick-down'. To save, press and hold the program button for 3 seconds. For details please follow the PerfectTune instructions on page 34.
- 7 Perform App Pairing. Download the *DTE PedalBox* App and please follow the app pairing instructions on page 35.



» Scope of delivery

- PedalBox Remote
- PedalBox Pro
- Quick start
- Remote mount
- Adhesive pads
- Cable ties



» General information

Information about the product

The PedalBox Pro is used to change the characteristic of the throttle pedal. By changing the configuration, the characteristics of the throttle pedal can be individually configured and optimised for the specific vehicle, deviating from the standard setting.

Object of this manual

This manual provides important information on how to use the PedalBox Pro. A prerequisite for proper functioning is compliance with all the safety instructions and handling instructions given.

Read these installation instructions carefully before installation so that you can benefit from all the technical advantages of the system in the long term. Only carry out the installation if you have read and understood these installation instructions. We recommend installation by a professional workshop.

The PedalBox Pro has been carefully manufactured and rigorously tested. Please follow all the instructions in this manual so that you can enjoy your PedalBox Pro for many years. Please note that improper or inappropriate use of the PedalBox Pro will invalidate the manufacturer's warranty.

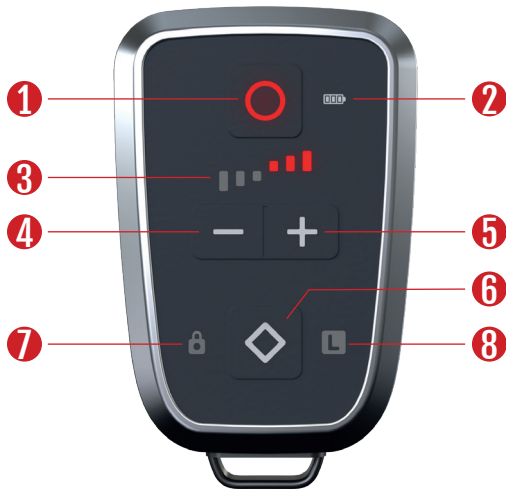
Note: Only use the PedalBox Pro for the defined vehicle. Never install the system with the ignition switched on. Remove the ignition key. After switching off the ignition, wait minimum 5 minutes until all electrical power consumers are switched off.

Make sure that the wiring harness of the PedalBox Pro does not touch or rub against moving parts or metal parts. Do not make any modifications (lengthening or shortening the wiring harness, etc.) to the PedalBox Pro. If malfunctions occur due to cables that are not fixed or improper installation, the manufacturer's warranty will also be invalidated.



» Overview PedalBox Remote

- 1 Program button
- 2 Battery status
- 3 Performance levels
- 4 Minus button
- 5 Plus button
- 6 Feature button
- 7 Immobiliser
- 8 Limit mode



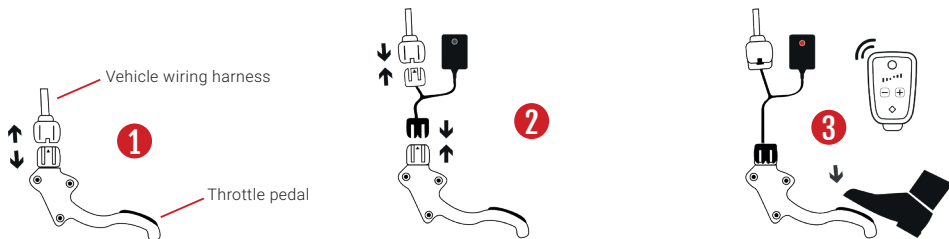
» Overview PedalBox Pro

- 1 Eyelet for cable tie
- 2 Status LED



» Installation & Launch

Never install the system with the ignition switched on. Remove the ignition key. Move Keyless-Go keys out of reach of the vehicle. After switching off the ignition, wait minimum 5 minutes until all electrical power consumers are switched off. Caution: Opening or closing vehicle doors may cause vehicle systems to power up again and should be avoided strictly during installation.



- 1 Disconnect the original plugs of your throttle from the vehicle wiring harness.
- 2 Connect the PedalBox Pro plugs to the two original throttle plugs.
- 3 Attach the PedalBox Pro Remote to your vehicle key or conveniently in the Remote mount. To do this, install the Remote mount with the adhesive pads user-friendly in a suitable position and insert the PedalBox Remote so that it is securely placed in the mount.

Wake up the remote by **briefly pressing the program button**. Pair the PedalBox Remote with the PedalBox Pro by **pressing and holding the Plus button for several seconds**. The program button and performance level of the Remote now light up blue. The Remote then shows you the last setting of your PedalBox Pro.

The PedalBox Pro is now ready for individual tuning with PerfectTune.



Please read the safety instructions on page 43

» Individual tuning with PerfectTune

How you perfectly match your PedalBox to your vehicle



Switch on the ignition. Please note that the engine remains switched off.



Press and hold the **Plus and Minus buttons together for about 3 seconds**. The performance level shows **all red and green bars**. PerfectTune is now ready to tune to your throttle pedal, the **program button flashes white**.



Now slowly press your throttle from neutral to full throttle. With an automatic transmission, you may have to overcome a slight resistance on the last part of the pedal travel (kick-down). Now release the throttle pedal back to the neutral position. You can measure the pedal travel several times by pressing the throttle, **the performance level shows you the throttle pedal position**.



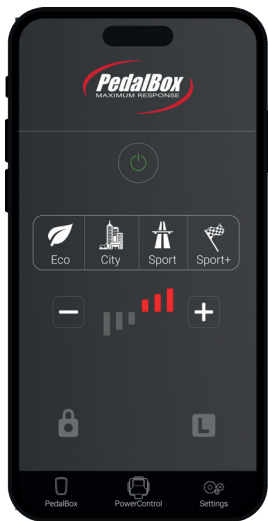
To save, **press and hold the programme button for 3 seconds**. The PedalBox Pro then returns to normal operation and displays the **current program on the program button**. All programs are now perfectly matched to your throttle pedal.



PerfectTune must be performed once in order to use the Immobiliser and Limit Mode.



» PedalBox App: Pairing



The PedalBox Pro also has a modern smartphone interface, through which central functions of the system can be controlled via smartphone. To pair the PedalBox Pro with your Apple iPhone or Android smartphone, please follow the steps below.

Apple iPhone

- Download the DTE PedalBox app from DTE Systems free of charge via the Apple App Store onto your smartphone. Complete the registration process and log in.
- Switch on the ignition so that the PedalBox Pro is activated. The PedalBox Pro is active when the status LED on the PedalBox Pro lights up. For your own safety, do not leave the engine running.
- Start the DTE PedalBox app and follow the instructions. Your smartphone will now connect automatically with the PedalBox Pro. If you are asked for a PIN code, please enter the 6-digit serial number. You will find this on the back of the base below the barcode.

Android

- Download the DTE PedalBox app from DTE Systems to your smartphone free of charge via the Google Play Store smartphone. Complete the registration process and log in.
- Switch on the ignition so that the PedalBox Pro is activated. The PedalBox Pro is active when the status LED on the PedalBox Pro lights up. For your own safety, do not leave the engine running.
- The PedalBox Pro is visible during pairing under the name PBP.
- Start the DTE PedalBox app. Select PedalBox Pro. Press "Connect and enter PIN enter". Select PBP (PedalBox Pro). Then enter the 6-digit serial number enter. You will find this on the back of the PedalBox Pro below the barcode.

If you have any questions about pairing Bluetooth devices with your smartphone, please refer to your smartphone manufacturer's manual or contact them.

» Compatibility

The PedalBox App is compatible with all Apple iPhones (from iPhone 8) with iOS 16 or higher as well as with smartphones with Google Android operating system 10.0 or higher with Bluetooth interface.

We recommend always using the latest version of the operating system to avoid possible limited compatibility with the Bluetooth standard. For further information, please pay attention to notes in the smartphone app or in the app stores. The range of functions of the smartphone app may vary depending on the technical equipment of your smartphone.








The PedalBox Pro is equipped with one of the strongest certified Bluetooth modules to achieve perfect connection quality. Strong Bluetooth transmitters in the environment may temporarily impair the connection and the remote control functions of the smartphone app, but have no influence on the proper functioning of the PedalBox Pro and do not constitute a defect.

Legal notice

The operation of smartphones while driving is prohibited in many countries. Please therefore observe the national regulations that apply to you in each case. For use, we recommend a fixed mobile phone mount in which you attach your smartphone and preset the PedalBox Pro before driving.



» Programs & Settings

Program selection

-  **ECO**
Program button shows green
-  **CITY**
Program button shows violet
-  **SPORT**
Program button shows orange
-  **SPORT PLUS**
Program button shows red
-  **STOCK**
Program button shows white
-  **LIMIT MODE**
Right LED shows yellow
-  **IMMOBILISER**
Left LED shows green (inactive) / red (active)



Fine adjustment

-  **Increase with plus button**
Performance level shows red, up to 3 times
-  **Decrease with minus button**
Performance level shows green, up to 3 times



Example: PedalBox Pro with Sport Plus program. The performance level is three levels higher.

» Programs & Settings

During installation and initial start-up of the PedalBox Pro, the CITY program is preset. After each restart of the vehicle, the PedalBox Pro always starts with the last selected setting.

Changing programs

Press the program button to switch between five preset programs [CITY, ECO, SPORT, SPORT PLUS and STOCK]. To fine-tune the selected program, press the plus button or the minus button.

Overview of the individual programs

CITY mode is perfectly designed for stop-and-go in city traffic. It ensures improved power in the low rev range:

ECO mode saves fuel on every journey. To achieve this, the program reduces fuel consumption by limiting aggressive and sporty acceleration. The response is programmed for economical consumption:

SPORT mode already significantly increases throttle response and is suitable for most driving situations. The engine responds more spontaneously: A real plus in dynamics, which the driver feels above all during overtaking maneuvers.

The **SPORT PLUS** mode has optimised throttle response throughout the entire rev range. The response in this mode is designed for fast starts and rapid acceleration.

In **STOCK** mode, the vehicle is in standard condition.

» Programs & Settings

Limit mode

To activate or deactivate Limit Mode, press the feature button for 3 seconds.

Be safe on the road at all times and stay in control. With Limit Mode, you can limit the throttle response and thus restrict the performance of the vehicle (e.g. for novice drivers or foreign drivers). The maximum position of the accelerator pedal can be set individually using the plus and minus buttons. 7 levels from 20% to 80% are possible.



20% Throttle pedal position
(Bar on left lights up)

Suitable for city traffic and valet parking



50% Throttle pedal position



80% Throttle pedal position
(Bar on right lights up)

Suppresses strong acceleration processes



Please read the safety instructions on page 43

» Programs & settings

Immobiliser

How it works

With the PedalBox Pro's immobiliser, you additionally secure your vehicle against theft. If the immobiliser is active, the PedalBox Pro permanently blocks the throttle pedal. Thus, the PedalBox Pro protects you especially from the consequences of the known security gaps of the Keyless Go, the so-called bridging, as well as the CAN bus hack. This makes it possible for thieves to bypass the car key, open the vehicle and start it. Finally, the PedalBox Pro prevents the throttle pedal from being activated, so that you are protected against this theft method.

Operation

To activate (lock symbol lights up permanently red) or deactivate (lock symbol lights up permanently green) the immobiliser, briefly press the feature button.



Active and armed after the vehicle is switched off



Inactive

When the immobiliser is active, the throttle response is only released if the associated remote or your paired mobile phone is within range. The blocked throttle response can only be released by waking up the Remote (pressing any button) or connecting a paired smartphone. When an authorised connection is made, the lock symbol briefly lights up green and then changes back to red. Deactivating the immobiliser via the feature button is not necessary for this. Thus, if the immobiliser is active, the next time the vehicle is parked or restarted, the throttle response is automatically blocked again.

Note: When the immobiliser is active, the throttle response is only blocked after the ignition has been switched off and the base of the PedalBox Pro is no longer supplied with power. This can take a few minutes with some vehicles.



» Auto-Unlock function Immobilizer

The PedalBox Pro has an auto-unlock function for the immobilizer. Under certain conditions, your authorized smartphone automatically unlocks the activated immobilizer as soon as you open your vehicle, the PedalBox Pro is supplied with power and your authorized smartphone is within radio range.

Set up the auto-unlock function under iOS

Select the [Settings] section in the DTE PedalBox app. There, click on [Auto-Unlock]. Activate the Auto-Unlock function by clicking on the [Activate Auto-Unlock] button. The active Auto-Unlock function is indicated by a green button. Please note that the Auto-Unlock function may not work if the DTE PedalBox app has been closed.

Set up the auto-unlock function under Android

A Bluetooth connection must be established between your smartphone and your vehicle, either with the hands-free system or with Android Auto, before the Auto Unlock function can be activated. Select the [Settings] section in the DTE PedalBox app. There, click on [PedalBox Pro]. Then click on [Auto Unlock]. Finally, select your vehicle from the list. The active selection is confirmed by a tick behind the vehicle name. The activated Auto Unlock function is also confirmed by a small key symbol in the status bar and a corresponding status message. Please note that the Auto-Unlock function may not work if the DTE PedalBox app has been closed.

Additional information

If the PedalBox Pro is successfully unlocked using the auto-unlock function, a corresponding message is displayed on your smartphone.

If the auto-unlock does not take place automatically even though an authorized smartphone is within range, the immobilizer can be unlocked directly via the app. It is usually sufficient to start the app or bring it to the foreground. Deactivation of the immobilizer is indicated by the lock symbol briefly changing from red to green and then back to red. If the immobilizer still does not release the pedal, briefly click once on the lock symbol so that it lights up green. To activate the immobilizer again, click on the lock symbol once more so that it lights up red again.

» Battery and charging

The PedalBox Pro remote runs on a rechargeable battery that can be charged via the micro USB port. The battery is approximately 40% charged before first use. The battery should be fully charged via the USB port for at least two hours before first use.

One operating cycle takes 30 seconds. The battery capacity is sufficient for 280 operating cycles. With normal use with 6-10 operating cycles per day, the battery will last for around 4 to 6 weeks.

The battery status display indicates the charge status. A fully or sufficiently charged battery is indicated by a green display. If the indicator lights up yellow, charging is recommended. If the indicator is red, between 10 and 15 operating cycles are still possible. The remote should then be charged as quickly as possible to ensure its functionality.

A complete charging process from 0% to 100% capacity takes approx. 4 hours. The charging current for the PedalBox Remote is deliberately set rather low to ensure that the battery lasts longer. If the battery is almost completely discharged, the battery status display flashes red, yellow and green alternately during the charging process. If a medium charge level is reached, the display flashes alternately yellow, green. The charging process is complete as soon as the indicator lights up green only.



» Safety instructions

Please note the following information

We recommend that the system be installed by a **professional workshop**.



Never install the system with the ignition switched on. Remove the ignition key. Move Keyless-Go keys out of reach of the vehicle. After switching off the ignition, wait minimum 5 minutes until all electrical power consumers have been switched off.

Make sure that all cables are located in such a way that they cannot affect the operation of the pedals. **Fix the cable under the fairing**, using cable ties if necessary.

Position the Remote with the enclosed mount **in the driver's field of vision on the dashboard** so that **unintentional or unnoticed operation of the buttons**, even by passengers, is **impossible**.



In any case, only change the setting of the PedalBox Pro **while your vehicle is stationary** and the engine is revving at idle speed. Test the new settings by carefully pressing the throttle pedal to get a feel for the changed sensitivity of the throttle.

Most vehicles have different acceleration and throttle response. Therefore, be mindful and always adjust the PedalBox configuration **only in small increments** (+1 or -1).

Never start the PerfecTune configuration while driving.

Only activate the **Limit Mode** while your **vehicle is stationary** and familiarise yourself with the mode **in a safe environment**.

Ensure that the **immobiliser is unlocked before each journey**.

Always pay attention to **road traffic**.

If you have any **questions regarding installation and safety**, please contact your authorised dealer immediately.



FAQ

Answer

The LED does not light up.

Is the battery of the Remote charged? Fully charge the Remote.
Checked all connected components? Is the PedalBox switched on?
Turn on ignition or start the car, problem solved?
None of the above. Contact our customer support.

The car doesn't run smoothly.

Check all connected components.
Are the connectors in the right position?
Are the LED's lit? Have you changed the program?

The EML light is shown or the vehicle goes into LIMP mode.

Is the adapter plug correctly engaged?
In some vehicles, the engine control lamp lights up. Reduce the program with the minus button. Change the program to CITY.

Engine light shows up.

Reduce the program by pressing the minus button.

There is no noticeable increase in performance.

Increase the program with the Plus button or select the SPORT PLUS program.

How do I return to default throttle setting?

The STOCK mode sets the vehicle to default setting.
Turn off the ignition when removing the PedalBox. Wait until all electrical consumers are switched off. Remove the PedalBox and reconnect the accelerator with the original plug.

FAQ

How do I reset a Remote if it no longer connects to the Base?

How do I reset the entire system, for example, to delete pairing lists?

Answer

Press the minus button for 10 seconds until performance levels flash blue. Release the minus button, the blue flashing indicator bars will scroll back and forth. Press the minus button again for 10 seconds. The reset is confirmed by the blue flashing performance levels.

The remote is connected to the base. Press the minus button for 10 seconds. The reset is confirmed by blue flashing performance levels.

Alternatively, you can also delete the pairing lists in the PedalBox app settings.

iOS:

Click on Settings in the app and select Delete Bluetooth pairings. Confirm by clicking on Delete pairings.

Android:

In the app, click on Settings and select PedalBox Pro. Now click on Delete Bluetooth pairings. Confirm by clicking on Delete pairings.

» Conformity

Conformity

When installing the PedalBox any deterioration of exhaust and noise characteristics of the vehicle in terms of § 19 StVZO German traffic regulations can be excluded due to the PedalBox construction. The PedalBox complies with all applicable safety requirements, including the essential requirements of Directive 2004/108 / EC on the approximation of the laws of the Member States relating to electromagnetic compatibility and applicable test guidelines for auxiliary control devices to modify the accelerator characteristic, in particular 2014/30/EU, EN 50498:2010, 70/157/EWG, VO (EU) 540/2014, 2011/65/EU, 715/2007/EWG, ECE R85, ECE R10, VdTÜV Mb. 751 (01/2018).

If you have questions, contact DTE Systems:

Tel.: +49-2361-90585-0

» Warranty

The manufacturer's warranty of DTE Systems GmbH for end customers is limited to customer's who have purchased the product from an official DTE dealer. End customers can receive warranty services at DTE Systems in Germany. These voluntary manufacturer's warranty services extend the legal rights according to applicable laws. Applicable national laws will not be affected by that.

While requesting warranty claims according to this warranty, the end customer is required to provide an original proof of purchase (i.e. the original invoice for the first purchase of the product by an end customer).

The warranty period is, if not otherwise stated in sales material, 5 years as of shipment.

The warranty is limited to proven material or production errors. Excluded are components that are affected by normal tear and wear. Furthermore, damages or errors due to improper usage, application outside the product specifications, negligence, manipulation, accidents, abnormal usage environments or improper installation are excluded, as well as consequential or incidental damages of any matter. The product has to be returned to

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45665 Recklinghausen
Germany

within 2 weeks after the error occurred, including a complete description of the error and the vehicle installation to allow for further investigation. Should the product not be sent within the stated period of time, the warranty is void.

» Disclaimer

For customers outside EU

Read carefully before installing the PedalBox. Remember this is a high performance product. Use at your own risk. For off road, racing on private premises and demo use only. Please check your national traffic legislation prior usage. Do not use this product until you have carefully read the following agreement. This agreement sets forth the terms and conditions for the use of the PedalBox. The installation of this product indicates that the buyer has read and fully understands this agreement and accepts its terms and conditions.

Disclaimer of Liability

PedalBox Manufacturer, its distributors or dealers shall in no way be responsible for the product's improper use and service. The buyer of this system hereby waives all liability claims. The buyer acknowledges that he is not relying on the seller's skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof, and the buyer hereby waives all remedies or liabilities, expressed or implied arising by law or otherwise, (including without obligations of the seller with respect fitness, merchantability and consequential damages) or whether or not occasioned by the seller's negligence. The seller disclaims any warranty and expressly disclaims any liability for personal injury or damages. The buyer acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the buyer agrees to indemnify the seller and to hold the seller harmless from any claim related to the item of the equipment purchased. Under no circumstances will the seller be liable for any damages or expenses by reason of use or sales of any such equipment. The seller assumes no liability regarding the improper installation or misapplication of its products. It is the installer's responsibility to check for proper installation and if in doubt the manufacturer is to be contacted.

» Manufacturer's Declaration

Within the context of this documentation, a Declaration of Conformity is a declaration that the electrical equipment placed on the market complies with all applicable essential safety requirements.

With the Declaration of Conformity provided in this section, we declare that the product complies with the applicable essential safety requirements from the directives and standards.



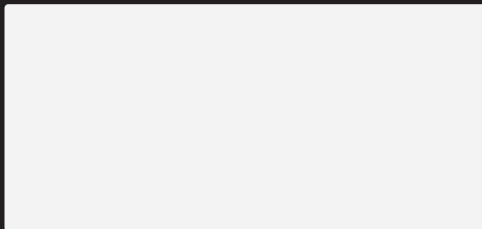
What does the CE- and ECE- mark signify?

- a) CE-marking and ECE type approval certifies the conformity with all obligations that need to be met by the manufacturer in relation to the product on community directives containing provisions relating to CE and ECE marking.
- b) The CE and ECE mark applied to industrial products signifies that the natural or legal person who applies the mark or has the mark applied, has ensured that the product meets all Community directives on complete harmonization and has been subjected to all the conformity assessment procedures demanded by the regulations



Directive on Waste Electrical and Electronic Equipment (WEEE)

Electrical and electronic equipment (EEE) contains materials, components and substances that could be dangerous or detrimental to human health and the environment if waste electrical and electronic equipment (WEEE) is not disposed of correctly.



Made in Germany

PedalBox ist ein Qualitätsprodukt von
PedalBox is a quality product by

DTE Systems GmbH
Maria-von-Linden-Straße 23
45665 Recklinghausen

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