

**RACE
CHIP**



RaceChip *Response Control* **Installation Guide**



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Foreword

Dear Customer,

Congratulations on your purchase of our RaceChip Response Control. At RaceChip our greatest priority is to allow you to better adapt your vehicle to your personal needs and preferences, thereby giving you greater driving pleasure. It makes us happy to hear from satisfied customers, who tell us that their experience with our products has put a smile on their face. And this is where our RaceChip Response Control comes in, with its ability to customise the responsiveness of your vehicle in exact accordance with your needs.

By changing the characteristic curve on the accelerator pedal sensor, we can reduce the reaction time of the engine. Your vehicle thus responds noticeably better and more comfortably to your accelerator commands - completely in line with your preferences.

In our Sport and Sport Plus driving levels, your vehicle accelerates without the slightest delay, while in Eco Mode you are afforded comfortable road behaviour with fuel-saving potential. The six driving levels allow a gradual transition from comfortable, restrained response behaviour to thoroughly sporty and direct responsiveness.

Our RaceChip team works with the utmost precision to create the enjoyable experiences that await you. We live for our products and that is why we make it our duty to provide you with the best possible product. Functionality, user friendliness and quality are the focus of our product development efforts. RaceChip Response Control does not require an official inspection (or registration) as it does not involve performance-enhancing or design-based changes to the vehicle.

We wish you happy driving!

Your RaceChip team



The central image shows the RaceChip Response Control device, a black rectangular unit with a power button at the top, a plus sign, a minus sign, and a row of five indicator lights. The RaceChip logo and 'RACE CHIP' text are visible on the device.


No inspection required


6 individual driving levels


**2 Eco driving levels
Saves on fuel**


Optimised responsiveness


A perfect match for chiptuning



Scope of delivery



RaceChip Response Control
individually customised for your vehicle.

Other equipment

Installation guide

for installing your new Response Control in just a few short steps.

If available, we will send you additional vehicle images for the installation process via e-mail.

Installation

First steps for installing Response Control

Please read through this installation guide carefully before beginning the installation.
The time required for the installation is generally just a few minutes.



Before installing, please switch off the ignition and wait for a period of 10 minutes until all electronic power consumers have powered down. All electronic power consumers must be shut off before installing Response Control.



Note on vehicles with a keyless system: please place the key outside the radio reception range of your vehicle (to be on the safe side, at a distance of at least 10 metres).



Under no circumstances should you attempt to install RaceChip Response Control with the ignition switched on. Any alterations made to this module or the accompanying wiring harness (e.g. extending or shortening the harness) will render the manufacturer's guarantee void. For safety reasons, during phases of acceleration, we advise you against changing the selected driving-level setting.



Depending on your vehicle, you may need a screwdriver with a slotted, hex or torx attachment for the purposes of installation.

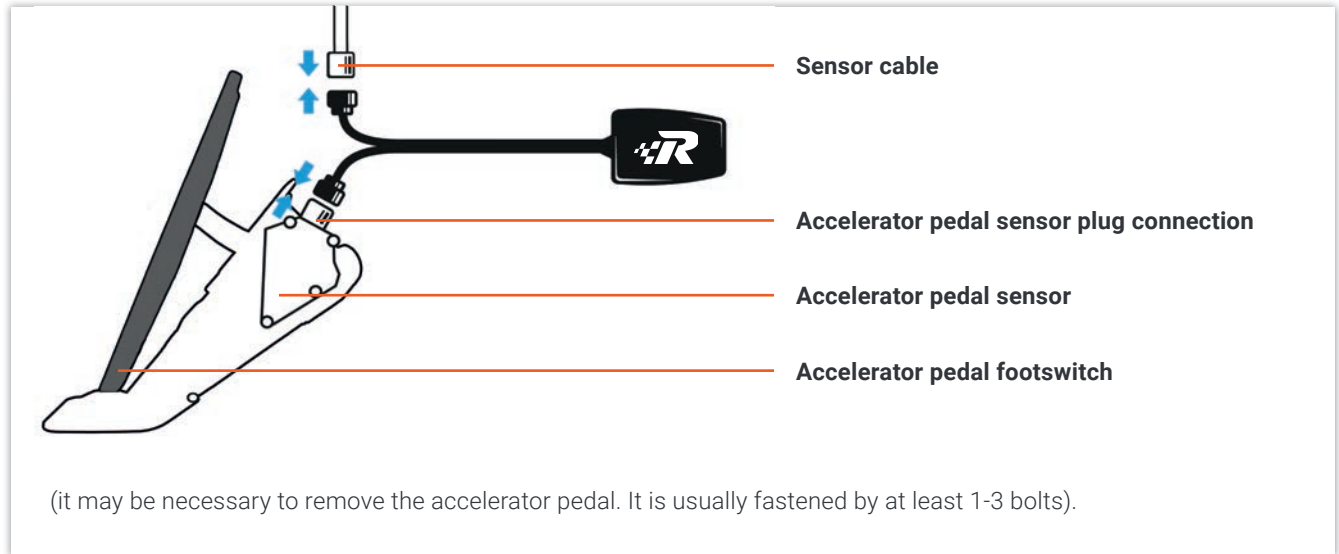


The following description uses an example vehicle to show you how to install your RaceChip Response Control module. If the design of your vehicle differs from this example, then individual components in the footwell area may be arranged differently to the layout in our illustrations. Most components relevant for the installation of Response Control are, however, the same across vehicle models.

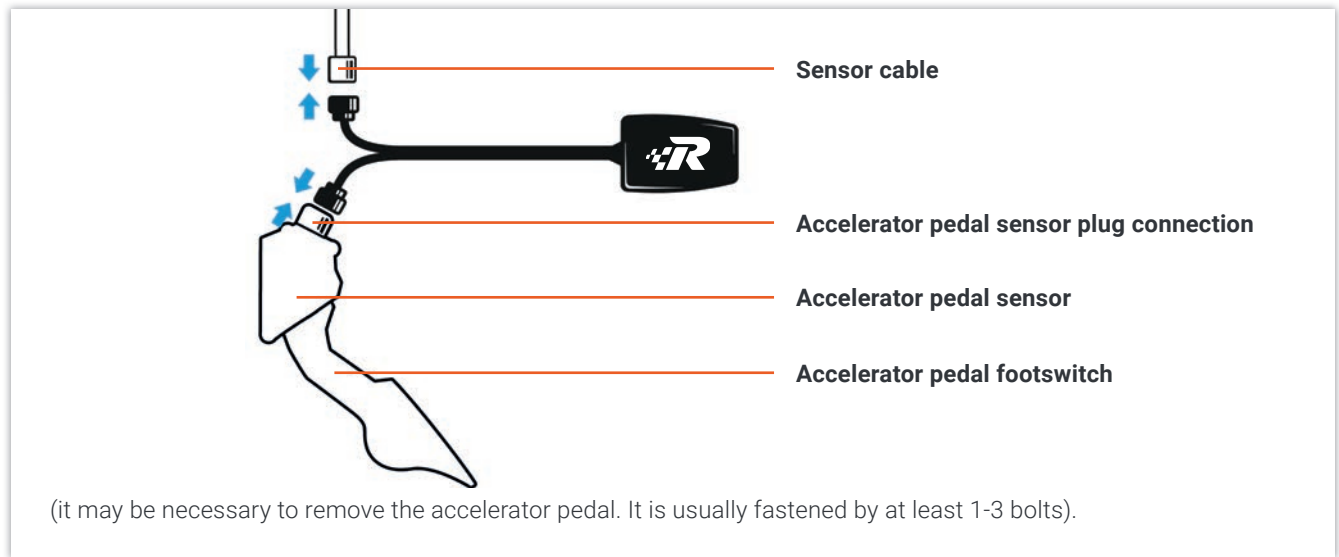


Layout of an electronic accelerator pedal

Accelerator pedal unit Version I



Accelerator pedal Version II



Step 1 of 7



Find the accelerator pedal sensor - it is usually located directly on the accelerator pedal unit. Removal of the pedal is usually only necessary for a *Version I* accelerator pedal (see page 7). If removal is not necessary, the sensor is located behind the cover of the accelerator pedal system (accelerator pedal *Version II*; see page 7).

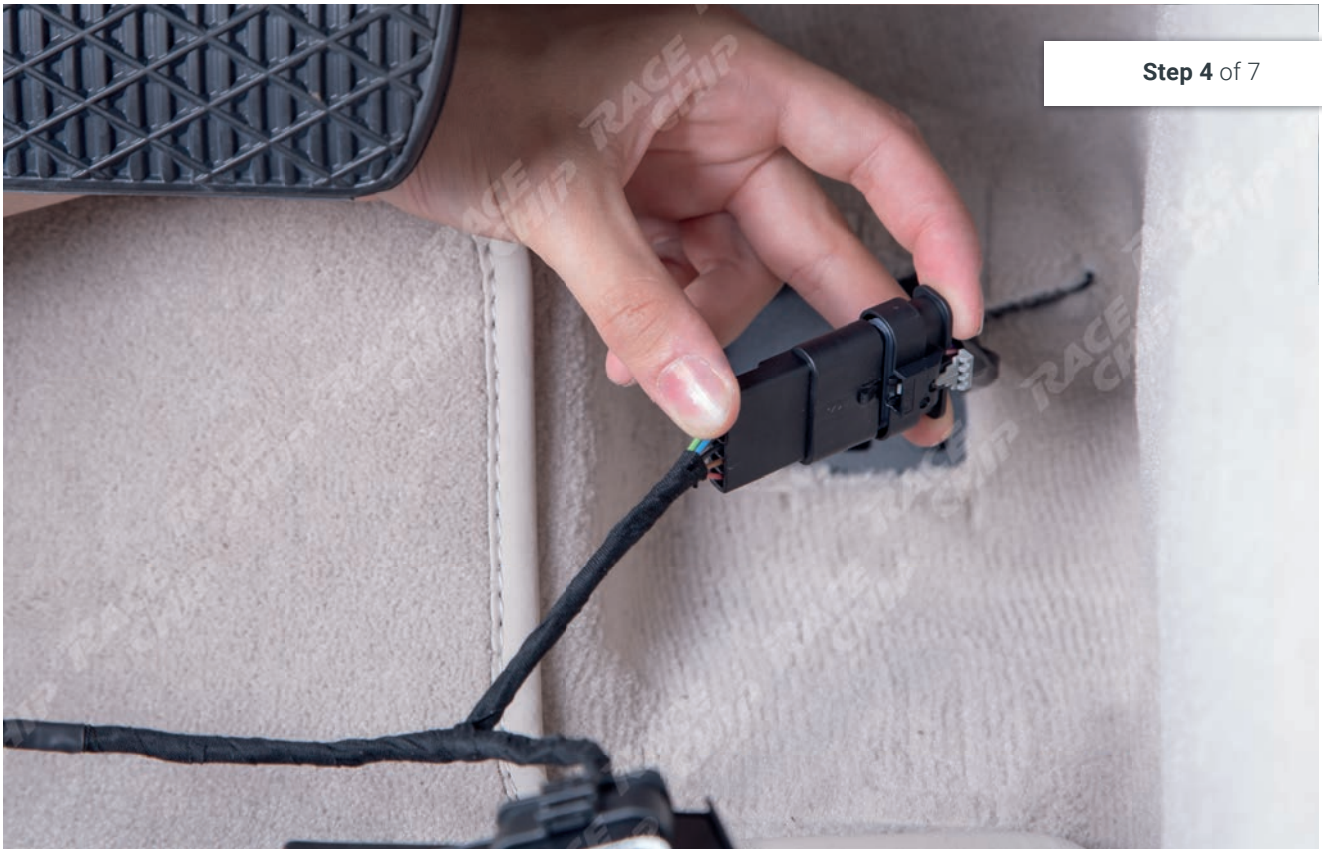


Disconnect the plug connector of the accelerator pedal sensor.

Step 3 of 7



Now connect the mating part of the Response Control wiring set to the accelerator pedal sensor. From looking at the shape of the plug connector, it should be clear which connector is to be used. When making the connection, make sure that there is a clearly audible „clicking“ sound.



Step 4 of 7

Now connect the detached plug connector of your vehicle to the remaining mating part of the Response Control wiring set. When attaching the connectors, there should be a clearly audible „clicking“ sound.

Step 5 of 7



The wiring harness is now installed in your vehicle. It is advisable to route the wiring behind the centre console trim. If it was necessary to remove the accelerator pedal, re-attach it now in the proper way.



Under no circumstances should the wiring harness be routed in a way that impairs the movement of the pedals.



Step 6 of 7

If you wish, you can fasten the RaceChip Response Control unit in place at an appropriate location (e.g. the instrument panel/centre console) using the tie-down set contained in the delivery package.



Tip: clean the location beforehand so that it is free of dust and grease.



Do not attach the module to movable parts (e.g. steering wheel, gear lever).
Do not attach the module in a position where it could impair visibility.

Step 7 of 7



Start your engine and shift to neutral. Please also check that the RaceChip Response Control unit is operational by pressing the On/Off button. If the first orange LED on the keypad lights up, then the RaceChip Response Control unit is operational. Next, depress the accelerator pedal to check the throttle response. The installation process is now complete. We wish you happy driving!

We hope you enjoy using
RaceChip Response Control !



Troubleshooting

If, after the installation, the RaceChip Response Control does not function as desired, you can use the (+)/(-) buttons to make slight alterations to the values of the engine map.

Jerking movements at consistent speed	Depress the (-) button gradually until the problem no longer occurs.
Unsteady shifting of the automatic transmission	
Bad throttle response	
No throttle response	Please check the plug connections. If the problem persists please contact our Customer Support team.



Fine-tuning

The Response Control driving levels

The order of the settings described here corresponds to the LEDs shown in the illustration from right to left.

Eco 2

Ideal for fuel-consumption-optimised driving in Stop&Go traffic.

Sport 1

Your vehicle shakes off the mild sluggishness of its factory settings.

Sport+1

Ideal for dynamic driving on fast bends on country roads.

Eco 1

Highly comfort-oriented driving. Ideal for steady cruising.

Sport 2

Improved dynamics due to better response times from your accelerator pedal.

Sport+ 2

Enjoy the responsiveness of a thoroughbred sports car.



Response Control On/Off switch

- saves the most recently selected setting

Increase responsiveness

- sporty road behaviour
- better throttle response
- automatic transmission response is less sluggish

LED display of active mode

Reduce responsiveness

- comfortable road behaviour
- slightly reduced throttle response
- petrol savings possible

Settings of the LED display mode

Setting the LED display mode

The continuous lighting of the LED can be switched on and off. Switching between LED modes is only possible when the module is switched off (using the On/Off switch).

Activating continuous lighting (as-delivered setting)

By pressing and holding the (+) button (for approx. 6 seconds) the „continuous lighting“ LED mode is selected. The module confirms the successful change of mode via the last red LED, which flashes 3 times. Continuous lighting is saved as the factory setting.

Deactivating continuous lighting

By pressing and holding the (-) button (for approx. 6 seconds) the „continuous lighting off“ LED mode is selected. The module confirms the successful change of mode via the last red LED which flashes 2 times. Once the driving level has been selected the LED goes out after approx. 20 seconds. To select the next driving level, please press the (+) or (-) button twice.



Contact us

We are always here to help!



Normal landline and mobile phone charges apply.
Contact us at:
+49 (0) 7023 - 77 999 - 0

Our service hotline is available from:

Monday to Friday, from 8:30am to 12:30pm
and from 2:30pm to 5:30pm.

Please have your customer details ready when you call. This allows us to access your key data quickly, and to help you as fast as possible.

You can also get in touch using our contact form:

www.racechip.de/kontakt

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