

STREETEC autoleveling

Air Suspension Control System

English



AN 1010 - EN - R3.1

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Air Suspension Control System

English

Manual

Version AN 1010 - EN - R3.1

Preamble



Dear customer,

congratulations on the purchase of the STREETEC autoleveling. We ask you to carefully read and follow the instructions to prevent possible damage. We do not assume liability for damages resulting from disregard of these instructions or improper use. For the most current operating instructions and additional product information, please scan the QR code.

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Safety instructions

- Do not install the STREETEC autoleveling while the ignition is on. Remove the ignition key. Wait 5 minutes after turning off the ignition until all electrical consumers are turned off.
- Ensure that cables and hoses do not touch or rub against moving parts or metal parts. Should malfunctions occur due to unsecured cables and hoses or improper installation, the manufacturer's warranty will be voided.
- To prevent injuries during installation, wear personal protective equipment.
- Any manipulation of the product, such as on the housing, is prohibited. Such interference will void the STREETEC autoleveling manufacturer's warranty.
- Work on electronic and pneumatic components of the vehicle as well as on the STREETEC autoleveling must be carried out by trained professionals.
- Keep the housing and all components of the STREETEC autoleveling as dry and clean as possible.
- Ensure that the pneumatic and electrical values are adhered to.

General information

The STREETEC autoleveling is designed to regulate vehicle height for motor vehicles with aftermarket air suspensions.

This manual provides important information on handling the STREETEC autoleveling. Compliance with all specified safety instructions and action guidelines is a prerequisite for safe operation.

Read this manual carefully before installation to fully benefit from the technical advantages of the system over the long term. Only proceed with the installation if you have read and understood these installation guidelines. We recommend that the installation be carried out by a professional workshop.

The STREETEC autoleveling has been developed and produced with great care. Therefore, it should also be installed with care. By following the instructions listed, you prevent the warranty from expiring prematurely, and you will enjoy your system for many years to come.

Let me know if there's another section or any specific part you'd like translated next!



Use the STREETEC autoleveling exclusively for aftermarket air suspensions.



In case of a defect, do not attempt to repair the device yourself. Leave this to the manufacturer.

Basics

ECU

The ECU (Fig. 1) of the STREETEC autoreleveling consists of a high-quality aluminum housing with a high-gloss acrylic glass cover. We recommend handling the ECU with care during installation to avoid impairing its optical properties.

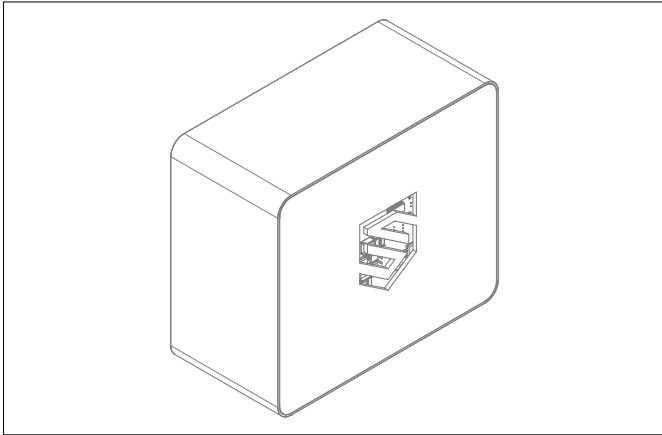


Fig. 1: STREETEC autoreleveling - ECU

- The ECU has been designed to be mounted in the vehicle in various ways:
- Lying flat with completely hidden wiring
- Screwed onto a bracket (a bracket is included in the delivery, which allows the ECU to be mounted standing).

ECU



The ECU must be securely screwed into the vehicle. Otherwise, calibration may not be performed accurately, and there may be issues with the regulation!

1. Select a mounting location for the component. The mounting location should be dry and ensure a secure hold for the ECU.
2. Check if you can route the wiring harnesses to the intended location.
3. Use the provided drilling template for drilling holes if the ECU is to be mounted lying flat.
4. Connect the wiring harnesses before securing the ECU. This makes the work a bit easier.
5. Then secure the ECU directly to a surface or to the bracket.



For the best possible leveling of the vehicle, two sides of the control unit must be aligned parallel to the longitudinal and transverse axes of the vehicle.



Included in the delivery, you will find a drilling template for easy positioning and mounting of the ECU!

Technical info - ECU

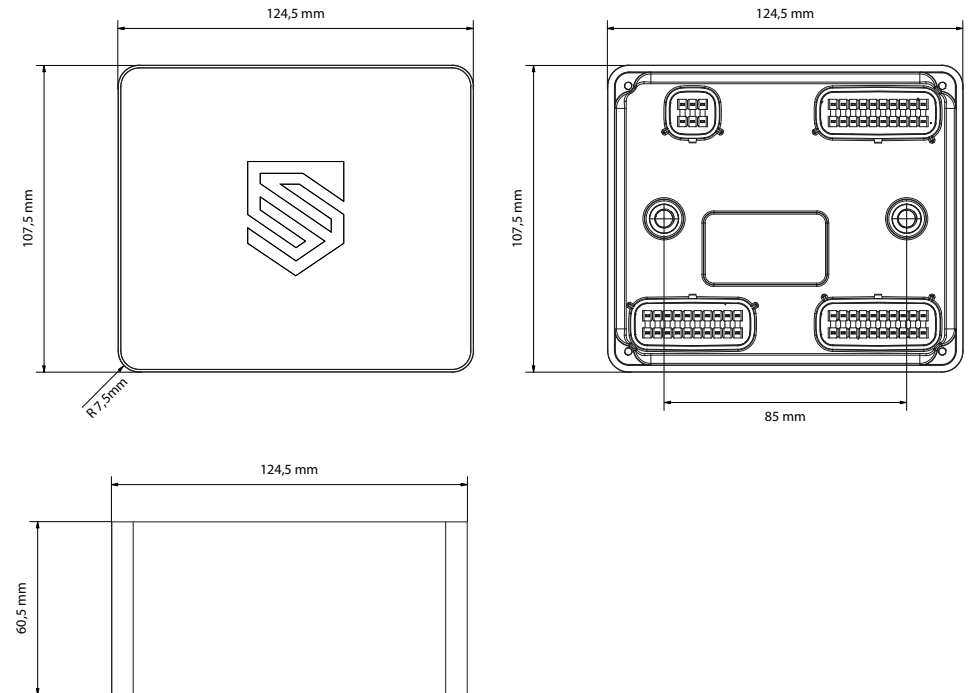
Product details

Product	STREETEC autoleveling - ECU
Part number	2013 0 0004
Measurements (L x W x H)	124,5 mm x 107,5 mm x 60,5 mm
Weight	363 g

Electrical details

Rated voltage	12V
Current (without touchscreen)	50mA
Current (with touchscreen)	300mA
max. current (with activated valves)	10A

Measurements - ECU



Touchscreen

The control unit (touchscreen, Fig. 2) of the STREETEC autoreleving consists of a high-quality aluminum housing with integrated neodymium magnets.

Thanks to the integrated magnets, the control unit can be easily attached to all magnetic parts in the vehicle.

The touchscreen is equipped with a USB-C port for connection to the wiring harness.

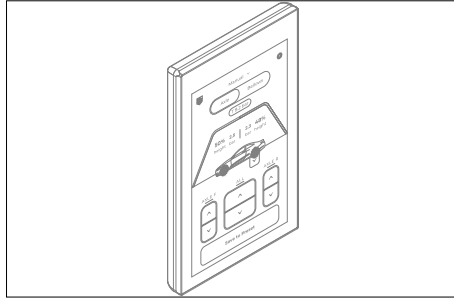


Fig. 2: STREETEC autoreleving - Touchscreen

The touchscreen of the STREETEC autoreleving features numerous technical innovations that give the system a particularly special value!

- The capacitive touchscreen operates on the same principle as a smartphone. Commands are made through touch without pressure.
- The system supports multi-touch mode. This allows various functions to be executed simultaneously or in combination.
- Haptic feedback creates the impression of pressing real buttons.
- Dimming when the vehicle lights are turned on increases safety during night driving.

Technical data - Touchscreen

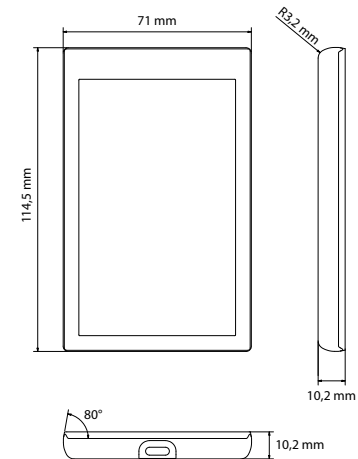
Product details

Product	STREETEC autoreleving - Touchscreen
Part number	2013 0 0003
Measurements (L x W x H)	114,5 mm x 71 mm x 10,2 mm
Weight	135 g

Electrical details

Rated voltage	5V
max. current	500 mA

Measurements



valve4

The STREETEC valve4 valve block (Fig. 3) has been designed for a clean installation and maximum reliability.

The valve4 can fill and vent 4 air circuits and is equipped with G 1/4" connections. The valve4 is designed for maximum flow, pressures up to 14 bar, and millions of switching cycles. Everything is integrated into a compact unit. With an overall size of approximately 125 x 55 x 80 mm, the valve block is ideal for all air suspensions.

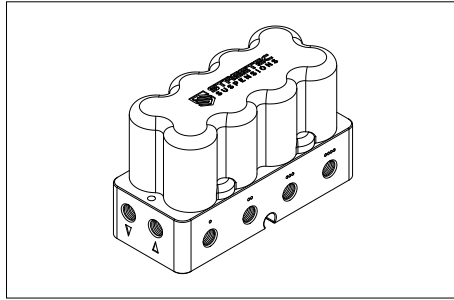


Fig. 3: STREETEC valve4



The proven installation of the valve4 valve block is mounting inside the vehicle's interior. If mounting outside the interior is desired, the installation site should be chosen so that the valve4 is protected from splash water and moisture.

1. Decide in which direction you want to route the cable from the valve block. By removing the base plate (Fig. 4), the cable can be positioned (Fig. 5) accordingly and secured.

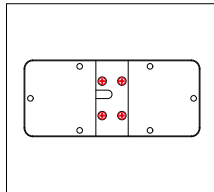


Fig. 4: Base plate

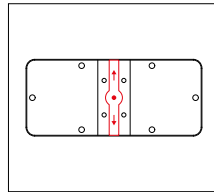


Fig. 5: Cable direction

valve4

2. Position the valve4 at the desired installation location. Ensure that the valve4 valve block can be securely fixed in place at the chosen spot.



Do not mount the valve4 upside down! Proper mounting of the valve block prevents water from settling in areas sensitive to frost. Incorrect installation may compromise the flawless function of the STREETEC autoleveling.

3. Secure the valve block using the provided mounting kit. If the mounting surface is not level, add washers or a spacer to even out the surface (Fig. 6). In this case, additional mounting material may need to be purchased.

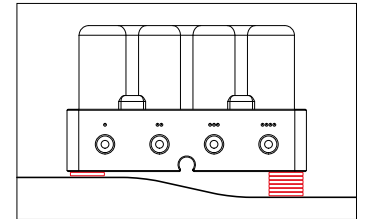


Fig. 6: Compensation mounting surface



Included in the delivery, you will find a drilling template for easy positioning and mounting of the valve4 valve block!

Technical data - valve4

Product details

Product	STREETEC autoleveling - valve4
Part number	9909 2 0204
Measurements (L x W x H)	52 mm x 123 mm x 75 mm
Weight	1150 g

Electrical details

Rated voltage	12V
max. current	4A

Pneumatic details

Operating pressure	max. 14 bar
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Connections

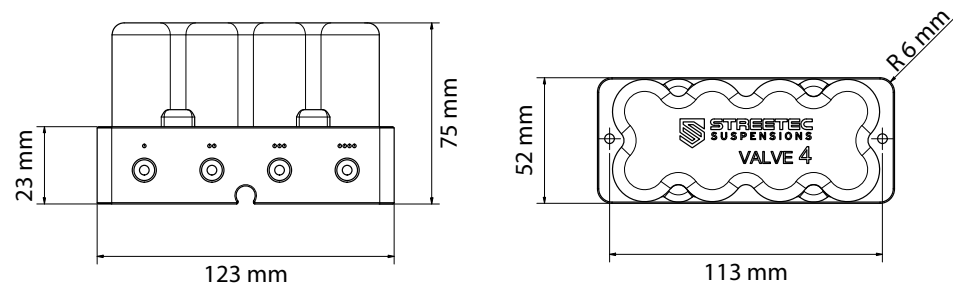
1 Punkt (•)	left front (LF)
2 Punkte (••)	left rear (LR)
3 Punkte (•••)	right rear (RR)
4 Punkte (••••)	right front (RF)
Arrow down ()	outlet (exhaust)
Arrow up (Δ)	inlet (tank)



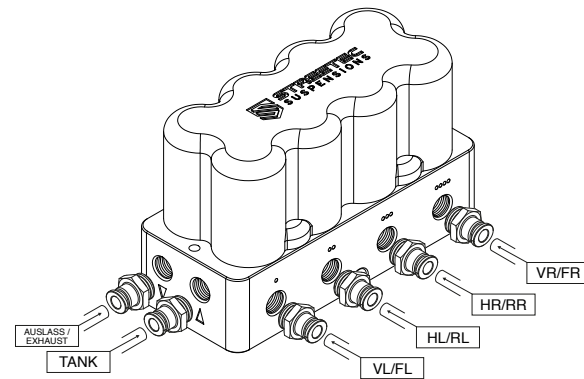
At high tank pressures (~ from 12 bar) and low system voltages ($\leq 12.5V$), the valves of the valve block may not open due to their design.

Technische Daten - valve4

Measurements



Connections



Water trap

The compressors of the air generation kit absorb moisture from the outside air. This moisture then enters the air tank, where it settles. The STREETEC autoleveling system is supplied with a water separator, which greatly reduces this moisture in the system and protects the system from corrosion and moisture damage. This also minimizes the risk of moisture entering the valve block.



The tanks must still be drained regularly to eliminate the risk of residual moisture in the system! To do this, please install the tank's vent valve with a hose led out of the vehicle interior to prevent moisture damage to other components due to venting the tank. If this is not possible, place a highly absorbent material (e.g., microfiber cloth) under the opening of the drain valve.

Please observe the following installation guidelines:

1. Mount the water separator in the correct flow direction. The arrow on the water separator indicates the flow direction and must point from the tank to the valve block (Fig. 7). If you decide not to mount the filter directly on the tank, run the required hose from the tank to the water separator and the hose from the water separator with the appropriate fittings to the valve block.

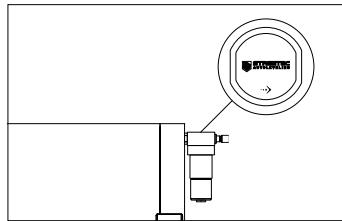


Fig. 7: Flow direction

Water trap

2. The water trap used in this system is a manually vented water trap and must be emptied regularly. This ensures that the drying process always functions properly and no water enters the system. Thus, component failures, such as of the valve block, can be avoided. Use the vent button (Fig. 8) on the bottom of the water separator for venting. When venting the water trap, use a small container or a highly absorbent material (e.g., microfiber cloth) to catch the condensate water.
3. Ensure that the filter is mounted in a vertical position. Do not install the filter upside down or at an angle (Figs. 9 - 12).

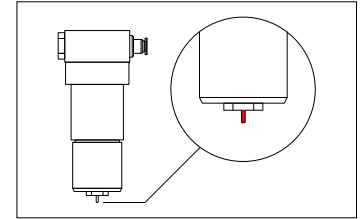
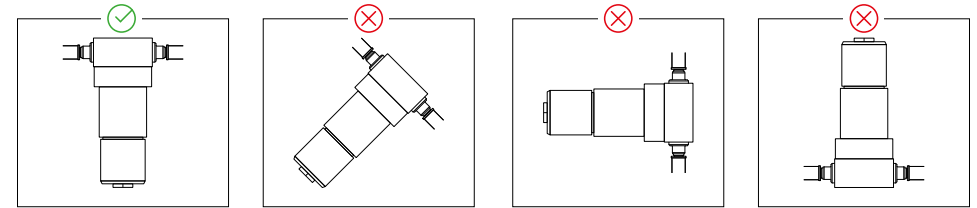


Fig. 8: Vent button



Figs. 9 - 12: Einbauposition Water trap

Technical data - Water trap

Product details

Product	STREETEC autoleveling - Wasserabscheider
Part number	9909 2 0363
Measurements (L x W x H)	45 mm x 41 mm x 140 mm
Weight	170 g

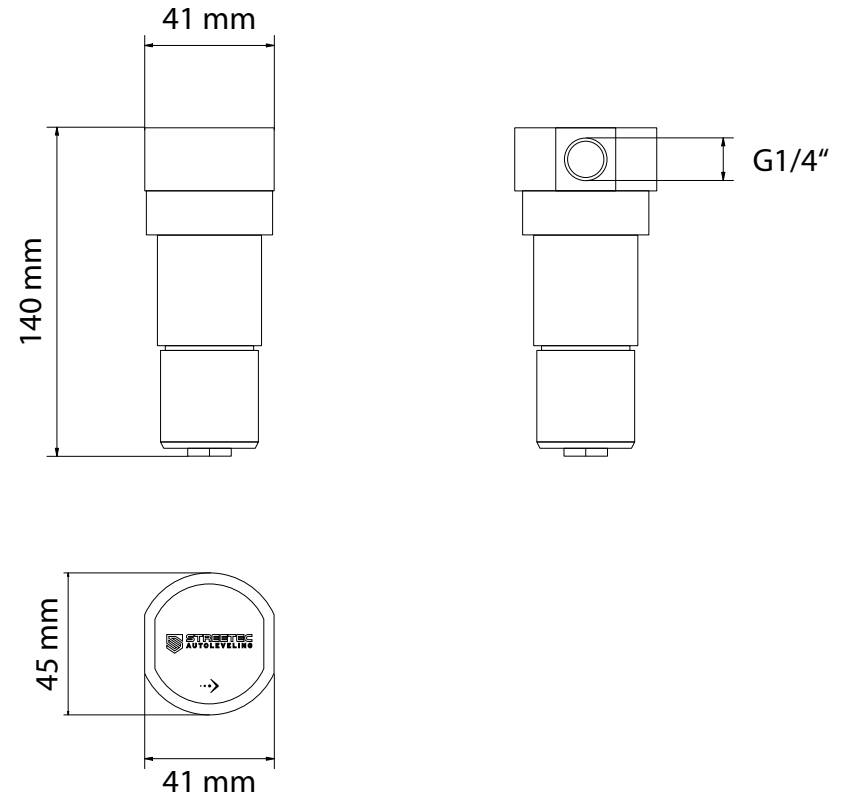
Electrical details

Rated voltage	12V
max. current	500mA

Pneumatic details

Operating pressure	max. 12 bar
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Measurements - Water trap



Pressure sensors

The pressure sensors (Fig. 13) of the STREETEC autoleveling are extremely robust sensors for the automotive sector, designed for a pressure range of 0 to 16 bar. They have G1/4" threads and are equipped with a seal, allowing them to be installed without additional sealing material.

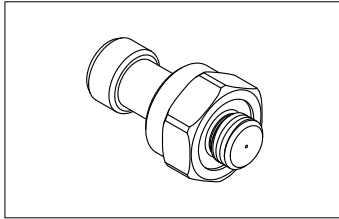


Fig. 13: Pressure sensor

The STREETEC autoleveling comes with 5 pressure sensors:

- 4 sensors for the pressures in the air springs
- 1 sensor for the tank pressure

The sensors for the air springs can be integrated into the system in various positions:

1. Mounting directly into the valve block (Fig. 14)
2. Mounting into the optional pressure sensor block (Fig. 15)
3. Mounting into the supply line to the air springs with optional T-fittings.

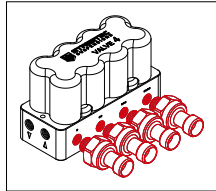


Fig. 14: Valve block

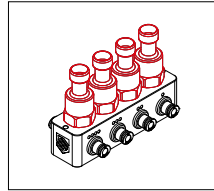


Abb. 15: Pressure sensor bl.



We do not recommend mounting into the supply line to the dampers and it should only be done in exceptional cases. The T-fittings required for mounting would need to be purchased separately in this case. (Part number: see components list pages 88-89)

Pressure sensors

The sensor for the tank pressure can also be mounted in various ways:

1. Mounting directly into the side connection of the valve block (Fig. 16)
2. Mounting directly onto the air tank (Fig. 17)

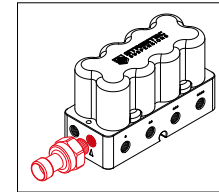


Fig. 16: Valve block

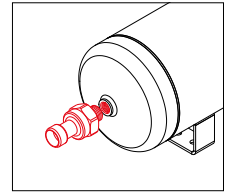


Fig. 17: air tank



When mounting the sensor on the tank, ensure that the pressure sensor is installed in the upper area of the tank. Also, make sure that the electrical connection on the pressure sensor does not point downwards (Fig. 5). Otherwise, the sensor can be damaged by condensate settling in the tank.

3. Concealed mounting on a hose led away from the air tank or valve block



We do not recommend mounting on a hose led away from the air tank or valve block and it should only be done in exceptional cases.

Technical Data - Pressure sensors

Product details

Product	STREETEC autoleveling - pressure sensor
Part number	9909 2 0504
Measurements (L x W x H)	51 mm x 24 mm x 26 mm
Weight	44 g

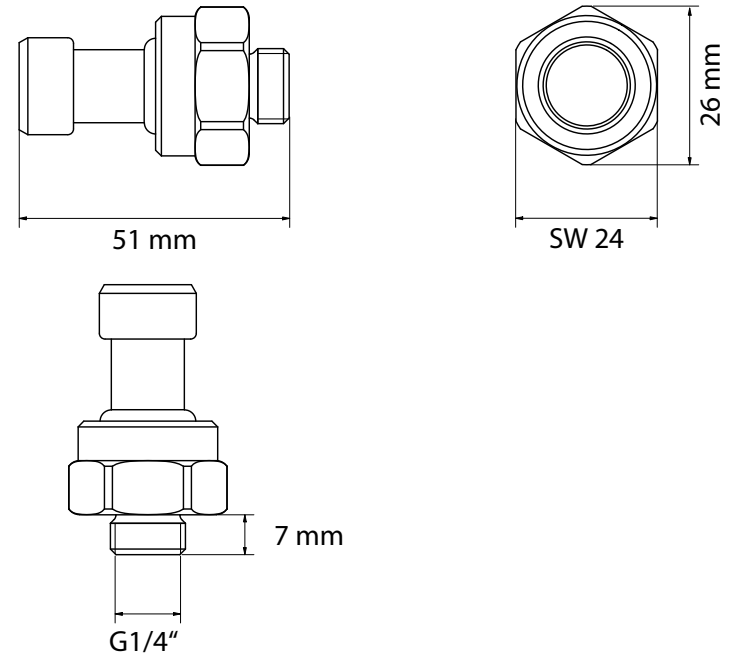
Electric details

Rated voltage	5V
max. current	30 mA
Output signa	0,5V - 4.5V

Pneumatic details

Operating pressure	max. 16 bar
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Measurements - Pressure sensors



Height sensors

The installation of height sensors (Fig. 18) should be carried out with care. The goal is to use as much of the sensor range as possible to achieve maximum accuracy in height regulation. However, the sensors must always be operated within the approved working range (Fig. 19).



We offer specific mounting kits for various vehicle models, which significantly simplify the installation process!

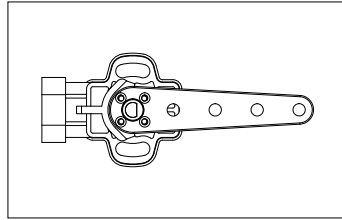


Fig. 18: Height sensor

Determine the mounting location of the height sensor:

1. Choose a stable mounting point on the body.
2. The sensor can be mounted in any direction, as long as the flattened side of the sensor shaft points to the opposite side of the connector when the sensor arm is in the middle position. The height sensors are delivered in Position A (Fig. 20). Remove the sensor arm to rotate it to Position B (Fig. 21) or C (Fig. 22). Try to mount the sensor in Position A or B, so that the arm is opposite or rotated 90 degrees from the connector. If this is not possible, ensure that the connection cable cannot come into contact with the sensor arm.

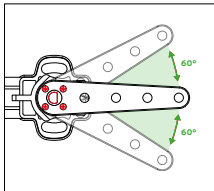


Fig. 19: Working range

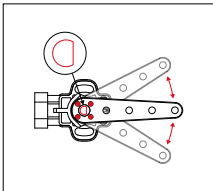


Fig. 20: Position A

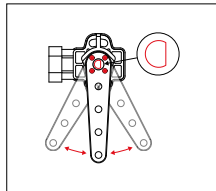


Fig. 21: Position B

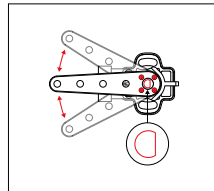


Fig. 22: Position C

Height sensors



Ideally, mount the sensors on the driver and passenger side of the vehicle at the same mirrored location. This ensures that the sensor range on each side is as equal as possible.

3. Try to find a mounting location where the sensor is directly above the potential mounting point of the height sensor's link rod. This mounting point is usually on a control arm of the suspension. For most vehicles, it will be necessary to fabricate a bracket to bring the sensor and the link rod mounting point into the correct position.
4. Ensure that the sensor and sensor arm have sufficient distance from suspension parts, the wheels, and other moving parts. It is important to ensure that this distance is maintained even at full lock of the wheels.
5. Additionally, make sure that the sensors and cables are sufficiently distant from hot vehicle components.
6. Ensure that the mounting points are suitable for the entire travel range of the suspension/vehicle.
7. Always try to use original mounting points and holes for securing the sensor and link rod.



We strongly recommend carrying out the necessary work on a lift and with the aid of a transmission jack. If using a jack, expect the work to be significantly more difficult and not to lead to quick success!

Height sensors

Sensor position selection

1. Attach the sensor to the vehicle and set the sensor arm to the middle position. Disconnect the air line from the air spring and lift the suspension using a transmission jack to the lower limit of the suspension's travel. Measure the distance [A] from the sensor arm to the chosen attachment point of the link rod (Fig. 23). Ensure that the attachment points are suitable for the entire travel range of the suspension/vehicle.

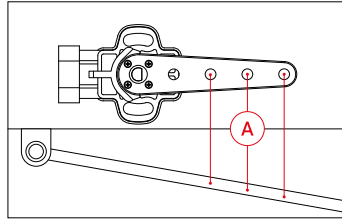


Fig. 23: Attachment point link rod

2. Reconnect the air line and apply as much air pressure to the air spring until the suspension is at its upper limit. Now measure the distance [B] from the sensor arm to the chosen attachment point of the link rod again (Fig. 24). The difference between the two measurements gives the maximum travel distance [C].

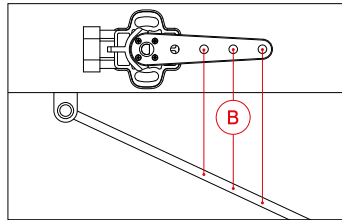


Fig. 24: Attachment point link rod

$$C = B - A$$

Height sensors

Selecting the right mounting hole for the link rod in the sensor arm

The maximum angle for the height sensor is 120 degrees. Selecting the right mounting hole ensures that this value is not exceeded. The selection of the right mounting hole (Fig. 25) is made using this table.

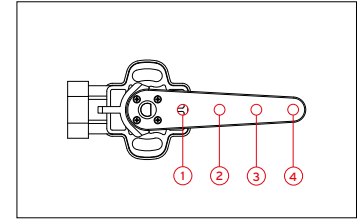


Fig. 25: Attachment pointsensor arm

hole	min. travel C [mm]	max. travel C [mm]
1	18	30
2	30	52
3	52	80
4	80	120

Height sensors

Adjusting the length of the link rod

1. Place the suspension in the middle position of the entire travel range using a transmission jack, and set the sensor arm to the middle position of its working range. Now measure the distance [D] between the chosen mounting hole and the mounting point of the link rod (Fig. 26).

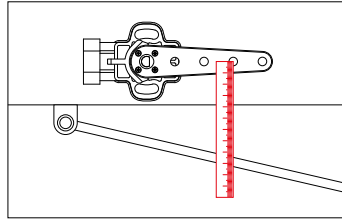


Fig. 26: Sesnor arm length

2. Shorten the threaded rod of the link rod. The length of the threaded rod must be 40 mm shorter than the distance measured in step 1 (Fig. 27)

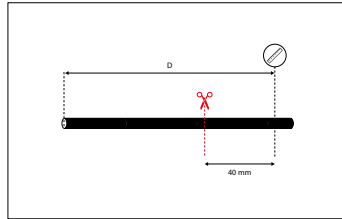


Fig. 27: Shortening the threaded rod

3. Cut the rubber covering on the threaded rod. The length of the rubber covering must be 55 mm shorter than the distance [D] measured in step 1 (Fig. 28)

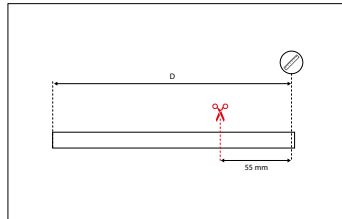


Fig. 28: Shortening the rubber covering

Height sensors

4. If you do not have a die to deburr the threaded rod, screw a nut onto the threaded rod before cutting the rod. Use the nut to deburr the end of the rod (Fig. 29).

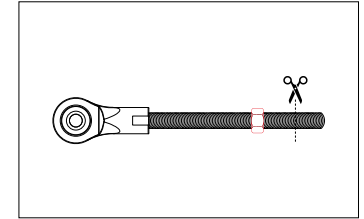


Fig. 29: Marking cutting point

5. Screw the threaded rod about ten turns deep into both heads of the link rod. This allows for an adjustment range of approximately +/- 10 mm in length for any necessary later corrections. (Fig. 30)

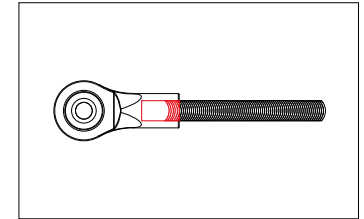


Fig. 30: Einschrauben der Gewindestange

6. Mount the link rod to the sensor arm and the mounting point on the suspension. Pay attention to the angle between the link rod and the sensor arm (Fig. 31). This angle must not exceed 15 degrees and can be corrected with spacers at the mounting point.

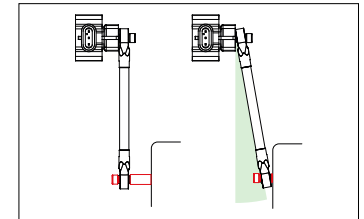


Fig. 31: Angle link rod

Height sensors

Verification of travel range

1. After installing the sensors at all four wheel positions, you can use the sensor tool in the control unit to check the working range. Proceed carefully to avoid damaging the height sensors. Ideally, perform the tests initially on the lift and with the aid of a transmission jack. The maximum voltage range of the sensors in the working range is between 0.5 and 4.5 V. These values must not be exceeded or fallen below, neither when the suspension is fully raised nor when it is fully lowered. Otherwise, the position of the sensors, the link rods, or the length of the link rods must be revised.

Technical data - Height sensors

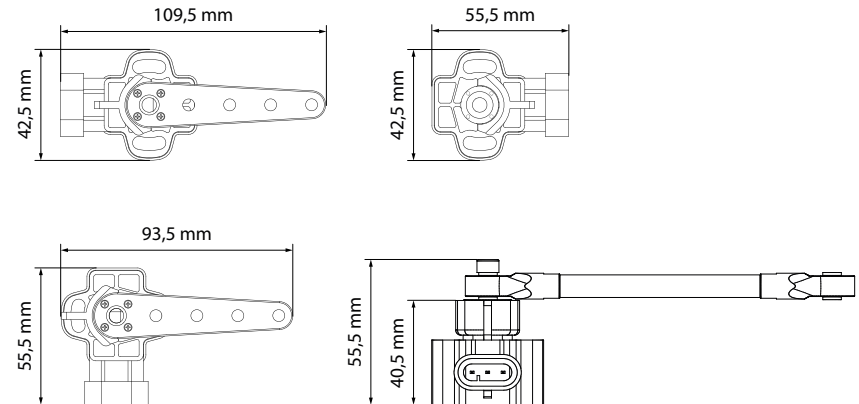
Product details

Product	STREETEC autoleveling - height sensor
Part number	9909 2 0027
Measurements (L x W x H)	109,5 mm x 42,5 mm x 40,5 mm
Weight	55 g

Electrical details

Rated voltage	5V
max. current	30 mA
Output signal	0,5V - 4,5V

Measurements



Installation of wiring harness

The wiring harness can be laid inside or under the vehicle. In any case, ensure that all parts of the wiring harness are protected from abrasive edges and heat sources.



Ensure a professional installation of the cables.



Disconnect the starter battery before installing the wiring harness.

1. Connection of the AirCU, valve block, and compressor

- Connect the wiring harness to the ECU.
- Connect the valve block plug to the designated plug on the main wiring harness.
- Insulate the compressor cables (red/black – 6 mm²) and the counterparts on the main wiring harness (red/black - 6 mm²).
- Connect the stripped wires of the compressor to the stripped compressor connection cables of the main wiring harness using the provided heat shrink butt connectors.



Remove all fuses of the STREETEC autoleveling when jump-starting the vehicle or welding on the vehicle. Ignoring this could damage the system.

Installation of wiring harness

2. Connection of the wiring harness to the battery and vehicle ground

Ground connection cable (black – 1.5 mm²) for ECU and valve block

- Strip the cable.
- Connect the cable with the provided ring terminal.
- Attach the ring terminal to a suitable ground point on the vehicle (observe manufacturer's specifications).

Battery connection cable (red - 1.5 mm²) for AirCU and valve block

- Strip the cable.
- Strip both cable ends of the smaller of the two provided fuse holders (1.5 mm²).
- Connect the cable of the main wiring harness with the provided heat shrink butt connector and the cable of the fuse holder.
- Connect the other end of the fuse cable with the provided ring terminal.

Attach the ring terminal to the positive terminal (+) of the battery.

Installation of wiring harness

Ground connection cable (black – 6 mm²) for Compressor

- Follow similar steps as above, ensuring secure connection to a suitable vehicle ground point.

Battery connection cable (red – 6 mm²) for Compressor

- Follow similar steps as above for connecting to the battery's positive terminal.



The wiring harness can only supply power to one compressor. When installing two compressors, a second power connection cable is required. Contact a STREETEC authorized dealer to purchase the optional wiring harness for the second compressor (part number: 1160 00 00).

Installation of wiring harness

3. Connection of the wiring harness to the ignition



Do not use any power source other than switched positive from the ignition starter switch (terminal 15).

Connection cable switched plus from the ignition start switch (red – 0.75 mm²)

- Strip the cable.
- Connect the cable with the pre-mounted connector on the flat fuse adapter.

4. Fuses

Fuse for battery connection cable (red – 1.5 mm²)

- Insert the provided 10 A fuse into the fuse holder and close the fuse holder's cap.

Fuse for battery connection cable (red – 6 mm²)

- Insert the provided 40 A fuse into the fuse holder and close the cap.

Fuse for connection cable switched plus from the ignition start switch (red – 0.75 mm²)

- Remove a fuse with a rating of at least 5 A from a wiring harness in the fuse box that carries switched positive from the ignition starter switch (terminal 15).
- Insert the flat fuse adapter.
- Insert the supplied 5 A fuse and the original fuse in the positions provided.

Installation of wiring harness

5. Connection of touchscreen wiring harness, touchscreen & warning buzzer

- Connect the wiring harness with the ECU.
- Route the touchscreen wiring harness to where you want to use the touchscreen.
- Connect the provided USB-C cable for the touchscreen to the designated plug of the touchscreen wiring harness and the underside of the STREETEC autoreleving touchscreen.
- Connect the provided warning buzzer to the touchscreen wiring harness.

6. Connection of height sensor wiring harness (optional)

- Route and secure the cables for the height sensors to the respective wheel; the positions (FL/FR, RL/RR) are indicated on the shrink labels of the cables.
- Connect the height sensor cables to the corresponding connector of the height sensor wiring harness. The positions are also marked on the height sensor wiring harness with shrink labels.

Make sure that the connection cables are laid in the correct position.

FL / VL	Height sensor at front, left wheel
FR / VR	Height sensor at front, right wheel
RL / HL	Height sensor at rear, left wheel
RR / HR	Height sensor at rear, right wheel

Installation of wiring harness



Ensure that the cables laid outside the vehicle are fitted with a drip loop (Fig. 32 - 35). Otherwise water could be drawn into the cable plugs!

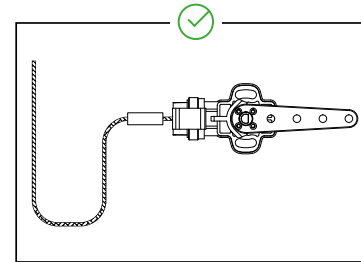


Fig. 32: Drip loop ok

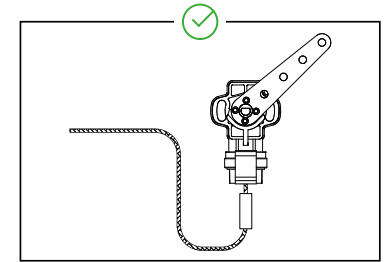


Fig. 33: Drip loop ok

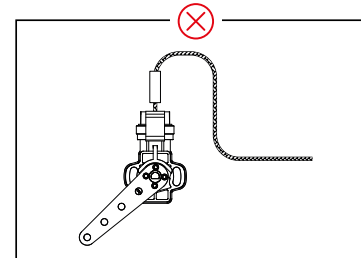


Fig. 34: Drip loop not ok

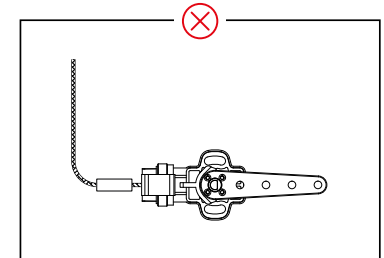
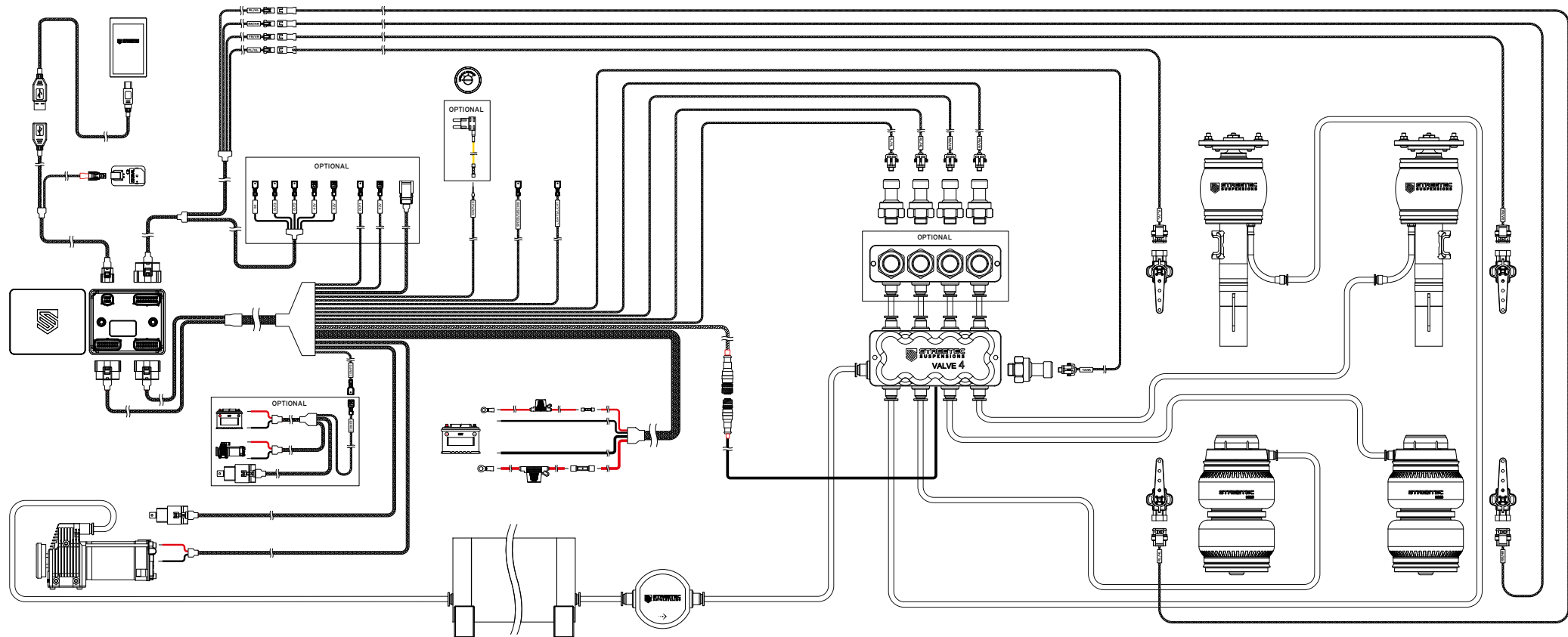


Fig. 35: Drip loop not ok

Connection diagram



Installation air lines

The air lines can be laid inside or under the vehicle. In any case, ensure that all air lines are protected from abrasive edges and heat sources.

1. Route and secure the air lines from the valve block (valve4) to the struts and air springs.
2. Route the line from the valve block to the water separator, and from the water separator to the tank, if you are not mounting the filter directly on the tank.



Route the air lines free from grinding edges and heat sources.



The air lines should be firmly inserted into the fittings with a slight twist. Check the connection by pulling on each line to ensure a stable connection.

3. Screw the provided silencer into the outlet of the valve block.



Use the included tube cutter (part number: 9909 2 0266). This allows you to cut all hose ends straight and smooth to prevent potential leaks. (Fig. 36).

Installation air lines

Cutting Air Lines: Tips & Tricks!

Cutting the Air Lines

- Cut the air line perpendicular to the direction of the air line's laying.
- Check air lines for damage before mounting on the fitting (scratches, tears, and uneven cut edges). (Fig. 36)

Minimum Bending Radius of Air Lines. (Abb. 37)

- 6mm air line – 25 mm bending radius
- 10mm air line – 55 mm bending radius
- 1/4" air line – 30 mm bending radius
- 3/8" air line – 60 mm bending radius

Connecting the Air Line to a Fitting:

- Avoid lateral stress on the hose.
- Avoid bends that are closer than 50mm to a fitting.

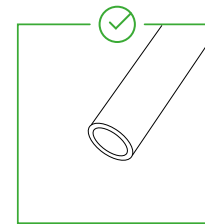


Fig. 36: Cut surface

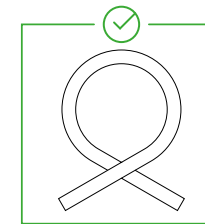
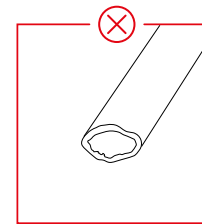
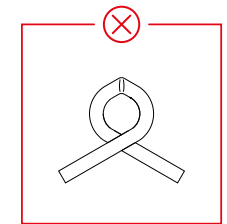


Fig. 37: Bending radius



Assembling air line / fittings

1. Cut the air line perpendicularly and without burrs. Ensure that the air line does not have any sharp edges, longitudinal grooves, or other damages.

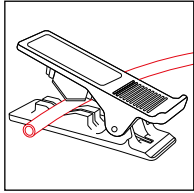


Fig. 38: tube cutter



Using the included tube cutter (part number: 9909 2 0266), you can create a clean, burr-free, and perpendicular cut edge.

2. Insert the air line all the way into the fitting. The retaining element fixes the air line in the fitting. A permanently tight connection is established by the built-in O-ring.

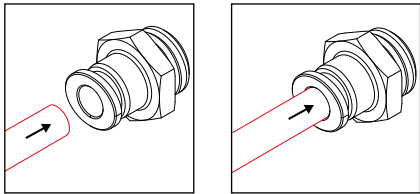


Fig. 39-40: Insert the air line

3. Check if the hose is correctly inserted. This can be easily done by pulling on the air line. This way, you can test the holding function and ensure that no leakage has occurred.

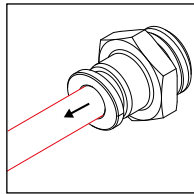


Fig. 41: Checking the connection

Disassembling air line / fittings

1. Ensure there is no pressure in the system. If the system is still pressurized, release the pressure.

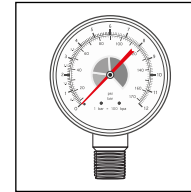


Fig. 42: Checking the system pressure

2. Press the retaining element of the fitting back with your fingers or using a release tool and keep it in this position.

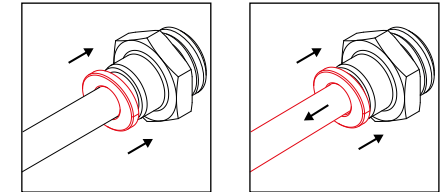


Fig. 43-44: Unlock the retaining element

3. The air line can now be removed.

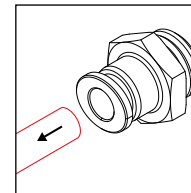


Fig. 45: Removing the air line

Quick Start Guide

On the following pages, we will show you how to commission the STREETEC autoreleveling and explain the most important functions.

During the initial commissioning, some basic settings must be made, which can also be changed later.

Turn on the ignition and off you go!

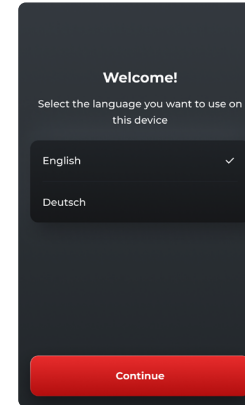
1



Start screen

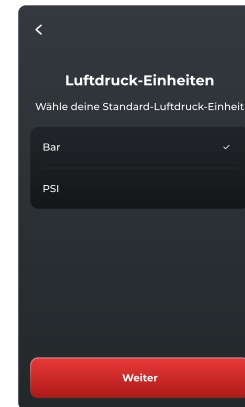
Quick Start Guide

2



Selection of language

3



Selection of pressure unit

Quick Start Guide

4



Connecting with the Smartphone

Bluetooth must be enabled on the smartphone.

This step can be skipped.
Continue with point 6!

A software update via the smartphone is not possible in this case.

Of course, the connection can be made at a later time via the smartphone app.



If you want to connect the STREETEC Autoleveling app via Bluetooth to the STREETEC Autoleveling control unit, you can do so now. Instructions for this can be found on page 74. The connection between the app and the control unit allows you to apply the latest updates and wirelessly control your suspension via the app. Make sure you follow the steps carefully to establish a smooth connection and to be able to use all the features of the app.

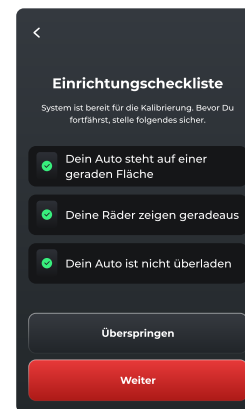
Quick Start Guide

5



When the STREETEC autoleveling has successfully connected to the smartphone, you will see a specific notification or indication.

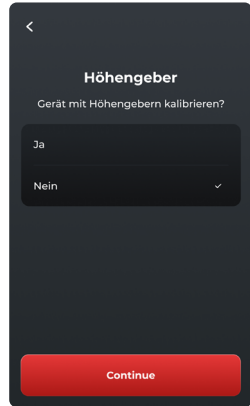
6



Before starting calibration, ensure all prerequisites are met to proceed. Skipping this (move to point 12) disables automatic height and pressure control, though calibration can be done later in settings.

This emphasizes the importance of calibration for full functionality, while also noting it can be deferred if needed.

7



Choose whether height sensors are installed.

This selection determines if the system will utilize height sensors for adjustments, impacting the functionality and calibration process.

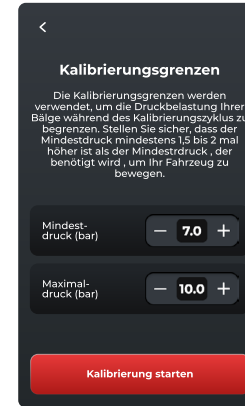
8



This choice involves specifying which pressure sensor model is integrated into the system, crucial for accurate pressure monitoring and control.

Quick Start Guide

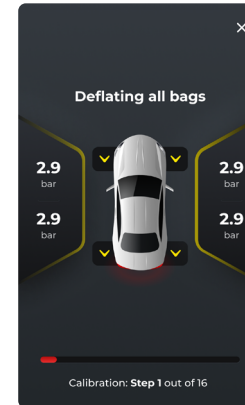
9



Calibration limits are used to limit the pressure load on your air springs during the calibration cycle. Ensure the minimum pressure is at least 1.5 to 2 times higher than the required minimum pressure to lift your vehicle.

This ensures that the system operates safely and prevents undue stress on the air springs during calibration.

10



The calibration of the STREETEC autoreleveling involves 20 steps during which the vehicle will move.

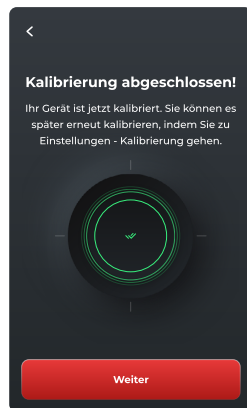
The vehicle must not be driven, rolled, or loaded during the calibration.

CAUTION: Risk of injury!

This warning emphasizes the importance of keeping the vehicle stationary and not applying any additional load to ensure a safe and accurate calibration process.

Quick Start Guide

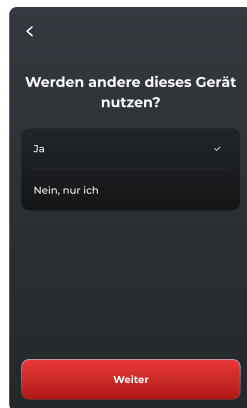
11



When the calibration is successfully completed, you will see a specific notification or indication. This could be a message on the control unit's display or within the STREETEC autoreleving app, confirming that the calibration process has finished and the system is properly set up.

It's important to wait for this confirmation to ensure the system is accurately calibrated and ready for use.

12



Query if the vehicle with the STREETEC autoreleving will be used by different persons.

In this case, individual settings and ride heights can be stored for up to 3 persons.

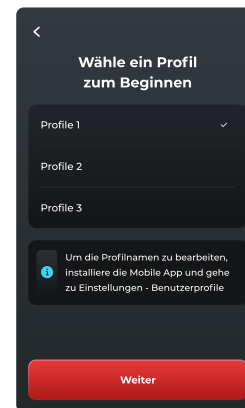
This step can be skipped, continue with point 14!

Of course, additional users can be added later via the settings.

This feature offers personalized adjustments for different drivers, enhancing the overall usability and experience with the STREETEC autoreleving system.

Quick Start Guide

13

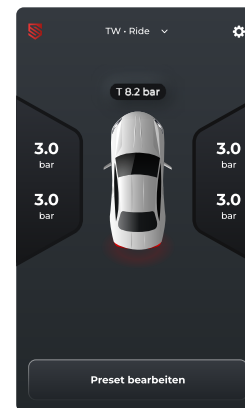


Selecting the first user profile

In the smartphone app, names and colors can also be assigned to the profiles!

This customization enhances user experience by allowing easy identification and personalization of settings for different users of the STREETEC autoreleving system.

14

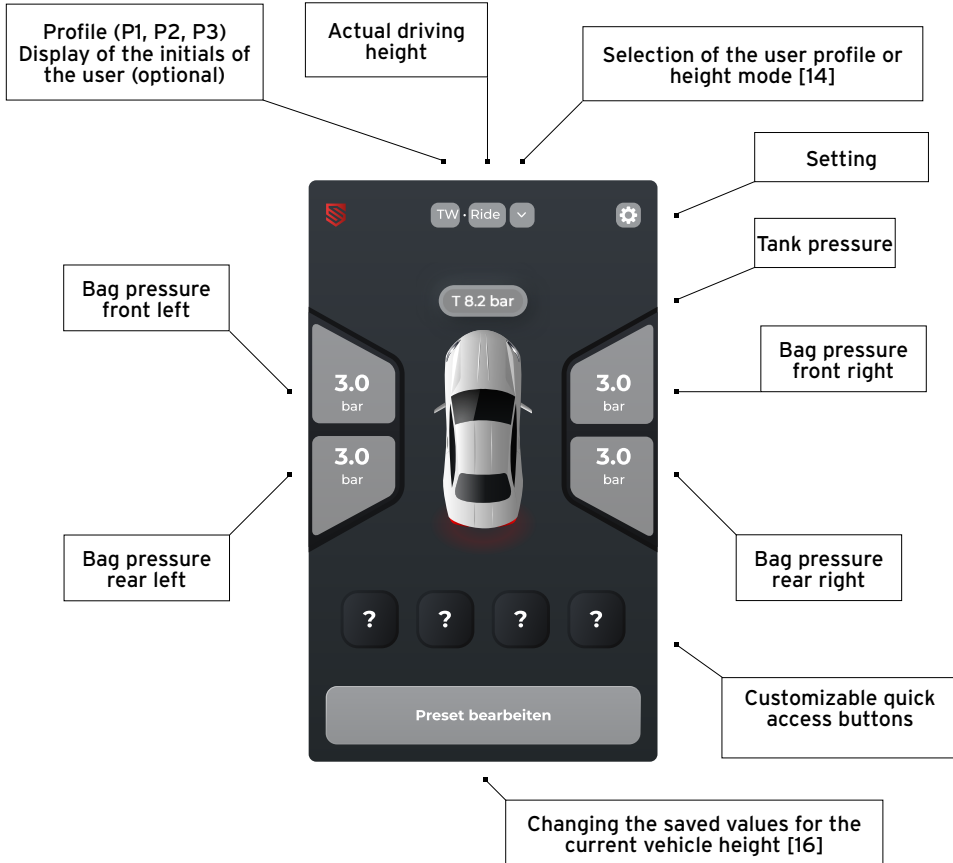


Main Screen (Without Height Sensors)

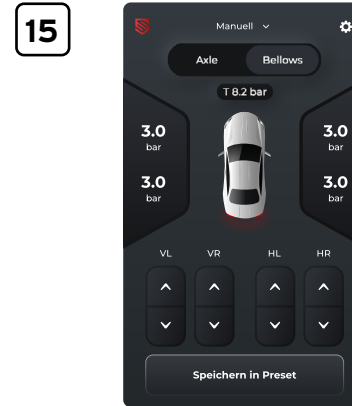
Display after performing the calibration!

An explanation of the main screen can be found on page 58.

Quick Start Guide

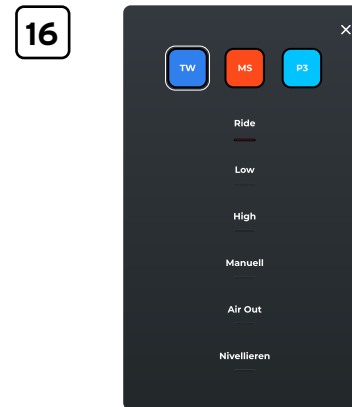


Quick Start Guide



Main screen

- Display when calibration has NOT been performed!



Selecting the user profile

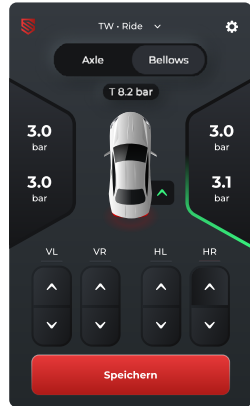
- Here for example: TW, MS, and P3

Selecting the Vehicle Height

- Ride Normal ride height
- Low Low ride height
- High High ride height
- Manual Manual adjustment (21)
- Air Out Complete lowering
- Level Car Leveling (22)

Quick Start Guide

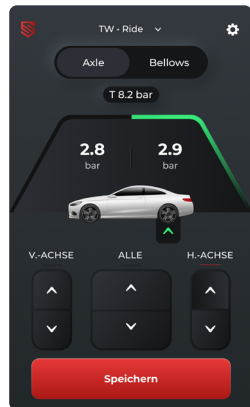
17



Setting a new driving pressure (without height sensors)

- Adjustment for each wheel position
→ can be switched to axle-wise adjustment (18)

18

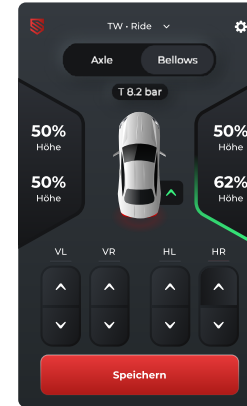


Setting a new driving pressure (without height sensors)

- Adjustment can be done axle-wise or for the entire vehicle
→ can be switched to adjustment for each wheel position separately (17)

Quick Start Guide

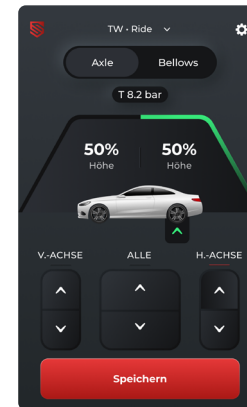
19



Setting a new ride height (with height sensors)

- Adjustment for each wheel position
→ can be switched to axle-wise adjustment (18)

20

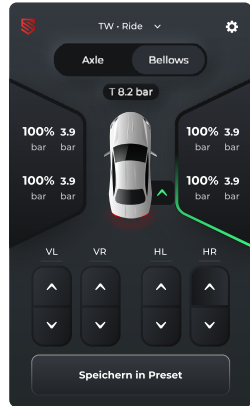


Setting a new ride height (with height sensors)

- Adjustment can be done axle-wise or for the entire vehicle
→ can be switched to adjustment for each wheel position separately (17)

Quick Start Guide

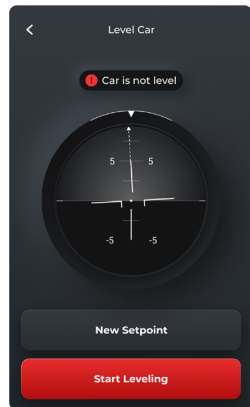
21



Manual adjustment with display of pressure and height (with height sensors)

This feature allows for manual adjustment of the vehicle's suspension, providing real-time feedback on both pressure and height directly from the height sensors. It enables precise control over the vehicle's stance and ride characteristics, allowing users to fine-tune their setup according to specific needs or preferences.

22



Leveling the vehicle

New Setpoint

- Here, a new reference point can be programmed. For example, for a motorhome with a bed surface that is level.

Start Leveling

- If a reference point has already been programmed, the leveling can be started. The vehicle will then be aligned so that, for example, the previously mentioned bed surface stands level even on uneven ground.

Quick Start Guide

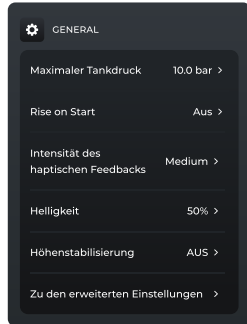
23



Display After Aligning the Vehicle

This display serves to inform the user that the vehicle has been successfully leveled and is now positioned correctly, ensuring comfort and stability.

Base settings



In the basic settings, you have the option to make fundamental adjustments to the STREETEC autoleveling control. To view all available setting options for autoleveling, you must select ‚Advanced Settings‘. After opening the menu for advanced settings, you can see the comprehensive configuration options for autoleveling. When you close the menu, only the basic settings will be displayed again.

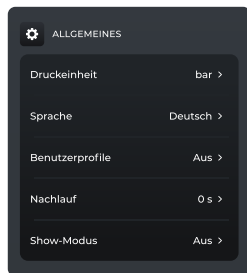
This ensures that users can easily access both simple adjustments and more detailed configurations as needed, improving the flexibility and user-friendliness of the

Base settings

- Maximum Tank Pressure - Tank pressure (10 to 14 bar) [Recommendation max. 12 bar]
- Rise on Start - When ‚Rise on Start‘ is activated, the vehicle adjusts to the normal ride height [RIDE] upon ignition change.
- Intensity of Haptic Feedback - Feedback from the touchscreen
- Brightness - Display brightness
- Height Stabilization - Adjustment of vehicle height at every stop of the vehicle
- To advanced settings - Opens the full setting options of the autoleveling

Base settings

Advanced settings



General settings

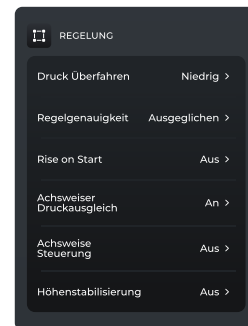
- Pressure Unit (bar or psi)
- Language
- Enable or disable user profiles
- In the ‚After Run‘ section, you can specify how long the autoleveling remains active after turning off the ignition.
- The Show Mode allows the autoleveling to remain active for a single ignition cycle or continuously.



Compressor control

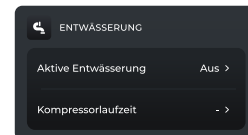
- Switch-on Threshold/Pressure Drop at which the compressor activates
- Minimum Battery Voltage at which a warning is displayed
- Max. Utilization rate of the installed compressor
- Maximum Running Time of the installed compressor
- Manual Starting of the Compressor for Tank Filling
- Manually Deactivating the Compressor

Advanced settings



Regulation

- ‚Overshooting‘ the preset pressure or height value and then adjusting it ‚from above‘. This is important for vehicles/suspensions that are difficult to regulate.
- Accuracy of Regulation
- With ‚Rise on Start‘ activated, the vehicle adjusts to the normal ride height [RIDE] upon ignition change.
- With pressure equalization activated, STREETEC autoleveling attempts to regulate the smallest possible pressure difference between the left and right sides within the capabilities provided by the vehicle. This applies when using height sensors!
- Regulation only occurs axle-wise, with efforts to always regulate the values to be the same on both left and right sides.
- With height stabilization activated, the control checks the current height status at every stop of the vehicle and adjusts it if necessary.



Water drainage

- When drainage is activated, an optionally usable electric water separator is controlled.
- Runtime of the compressor that is activated after the water separator.

Advanced settings

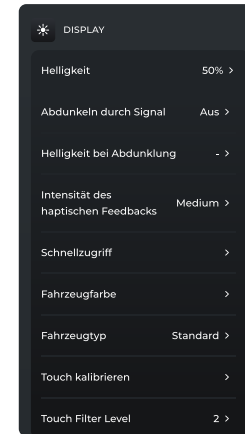


Cruise Safe

- Alarm for too low pressure
- Alarm for too high pressure
- Lock adjustability upon driving detection through the integrated acceleration sensor
- Lock adjustability upon driving detection through a connected signal (e.g., speed signal)
- Speed at which adjustability is disabled (with connected and calibrated V-signal)
- Lock adjustability upon driving detection through handbrake signal (12V or ground)
- Offset of the display to the actual driving pressure
- Limiting pressure front axle
- Limiting pressure rear axle

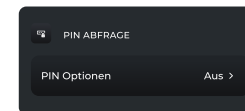
These features enhance the safety and reliability of the STREETEC autoleveling system by preventing adjustments under unsafe conditions and alerting the user to potential issues with the system's pressure levels.

Advanced settings



Display

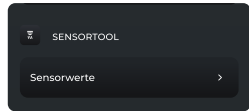
- Display Brightness: Adjust the brightness of the display for optimal visibility under different lighting conditions.
- Dimming the display when driving lights are on: Automatically dims the display to reduce glare and distraction when the vehicle's driving lights are activated.
- Brightness of dimmed display: Adjust the level of brightness for the display when it is dimmed, ensuring it remains readable without being overly bright at night.
- Intensity of haptic feedback from the touchscreen: Adjust the intensity of the tactile response you feel when interacting with the touchscreen, allowing for a personalized touch experience.
- Quick access - Selection of up to 4 Quick Access Items: Customize your interface by selecting up to four quick access items for easy reach of the features you use the most.
- Vehicle type / Vehicle color: Offers the option to freely choose the displayed vehicle type and color of the depicted vehicle, allowing for a more personalized interface.
- Touch calibration: This allows you to calibrate the touch display of the autoleveling. Changes become effective



PIN

- Activate/deactivate

Advanced settings



Sensor tool

- The Sensor Tool is a helpful utility for easier installation and testing of height sensors. It's designed to facilitate the accurate placement, calibration, and troubleshooting of sensors that are critical for the proper functioning of systems requiring precise height measurements, such as the STREETEC autoleveling system. By simplifying these processes, the tool ensures optimal performance and reliability of the height sensing capabilities.



Calibration

- Calibration of pressure/height control: This involves setting the system to accurately respond to changes in vehicle height or pressure, ensuring the desired vehicle stance under various conditions.
- Calibration of speed: This process adjusts the system's response to vehicle speed, potentially affecting how ride height adjustments are made during different driving speeds to balance comfort, handling, and aerodynamics.

These calibration steps are crucial for optimizing the performance of the autoleveling system, ensuring it reacts appropriately to changes in driving conditions and maintains the vehicle's desired posture and stability.



Reset

- Resetting to Factory Settings: This option reverts the system back to its original factory settings, erasing any custom configurations made to the autoleveling system. It's a useful step when troubleshooting issues or preparing the system for a new setup.
- Resetting to Default Values (Heights/Pressures): This specifically resets the height and pressure settings to their default values, which are the pre-programmed settings determined by the manufacturer. It allows users to start fresh with the standard setup before making any personalized adjustments based on their preferences or vehicle requirements.

Both reset options provide a way to ensure the system is set to a known, baseline state, which can be helpful for both maintenance and when making significant changes to the vehicle's setup.

autoleveling app

Laden Sie die kostenlose App für das beste autoleveling Erlebnis herunter.

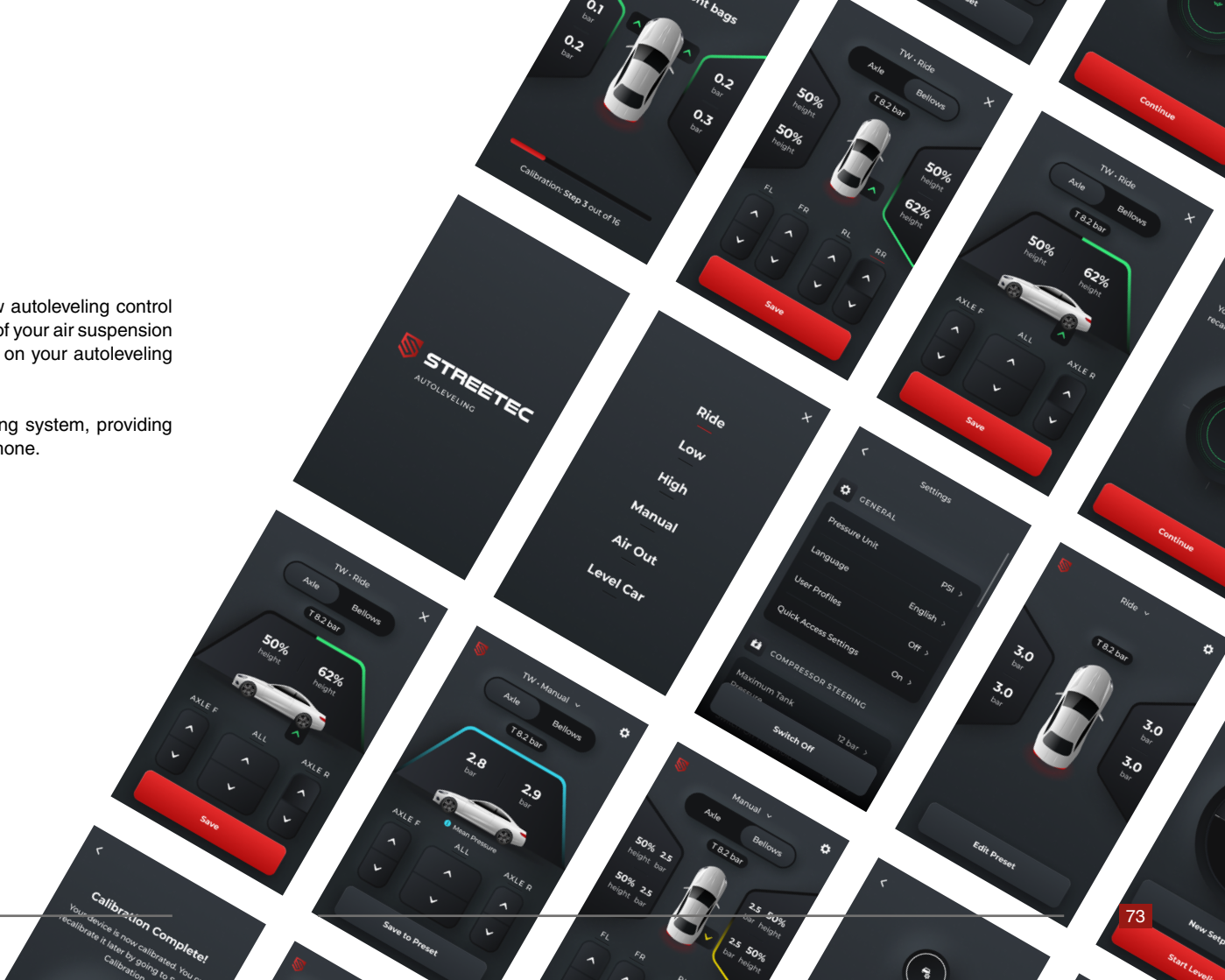
The mobile app ‚STREETEC autoleveling‘ allows for full integration of your new autoleveling control with your mobile device. Simply download the free app to not only take full control of your air suspension but also to always have the latest firmware with updates directly from your app on your autoleveling system.

This app enhances the usability and functionality of the STREETEC autoleveling system, providing convenient access to settings, adjustments, and updates right from your smartphone.



You can also search for „autoleveling“ in the Apple App Store or the Google Play Store.

This makes it easy to find and install the app on your iOS or Android device, ensuring you have access to the autoleveling system’s full



autoleveling app setup

On the following pages, we will show you how to get the STREETEC autoleveling APP up and running and how to connect it to your autoleveling control via Bluetooth.

Take out your phone and turn on the ignition, then you're ready to start!

This introduction suggests that the setup process involves a few straightforward steps, starting with ensuring your vehicle is ready and your mobile device is on hand for the pairing process.

1



Start the autoleveling app.

autoleveling app setup

2

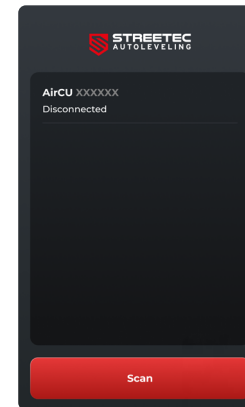


Select „Scan“ to search for your autoleveling control unit (AirCU) in the vehicle.

Ensure Bluetooth is enabled on your smartphone.

This step is crucial for the app to find and establish a connection with the AirCU, allowing for wireless communication and control over your vehicle's autoleveling system.

3

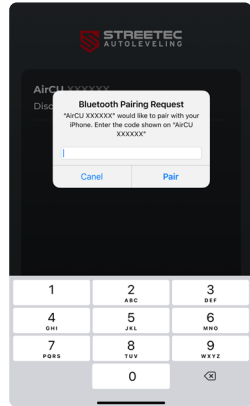


Choose your ECU (AirCu)

IMPORTANT: AirCU Dummy is not a real ECU but is only for testing purposes of the app, allowing it to be ‚used‘ without an existing ECU.

autoleveling app setup

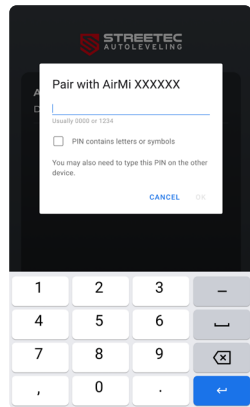
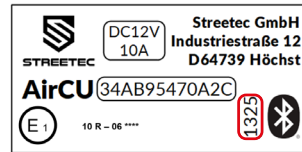
4



Your smartphone will ask for the Bluetooth code of your autoleveling control unit (AirCU).

You can find the Bluetooth code on the accompanying quality sheet.

This step is part of the pairing process to ensure a secure connection between your smartphone and the AirCU.

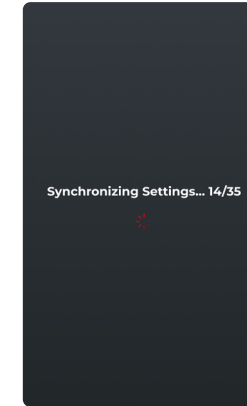
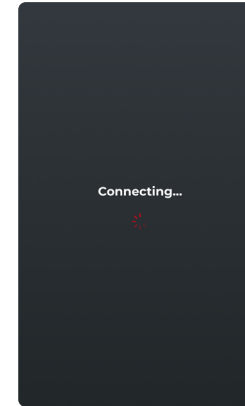


After entering and confirming the Bluetooth code, your phone will connect to the control unit (AirCU) of the STREETEC autoleveling (Step 5).

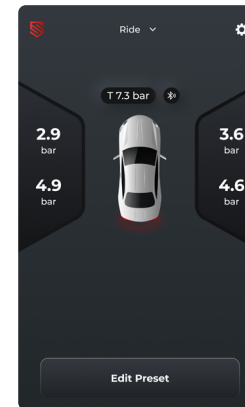
This step finalizes the pairing process, enabling full wireless communication and control between your smartphone and the autoleveling system. Once connected, you can start using the app to adjust settings, monitor system status, and more.

autoleveling app setup

5



6



After connecting and synchronizing with the AirCU, the app is ready for operation.

This means you can now access all the features and settings of the STREETEC autoleveling system directly from your smartphone. You can adjust ride heights, monitor system pressures, and even update settings or firmware as needed.

autoleveling updates

On the following pages, we will show you how to update the STREETEC autoleveling system. To perform the update, you must be connected to the STREETEC autoleveling control unit (AirCu) via Bluetooth using the AutoLeveling App.

If you have not yet set up the mobile app, please start on (page 68).

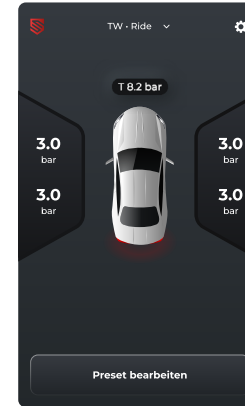
This instruction emphasizes the importance of having a stable connection between your mobile device and the autoleveling system to successfully complete software updates, ensuring the system has the latest features and improvements.



Start the autoleveling app.

autoleveling updates

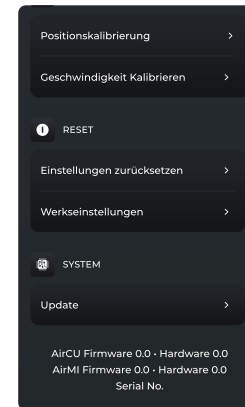
2



To access the settings, go to the gear icon.

This instruction guides you to enter the settings menu of the STREETEC autoleveling app, where you can adjust preferences, update the system, and customize various aspects of the autoleveling functionality.

3

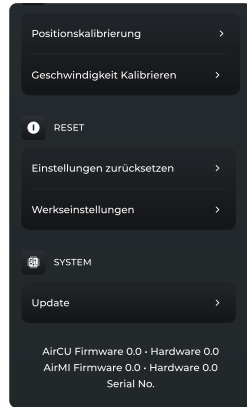


Scroll down to the bottom of the settings and select the Update menu.

This step will lead you to the section where you can check for available firmware updates for your STREETEC autoleveling system. From here, you can initiate the update process to ensure your system is running the latest version.

autoleveling updates

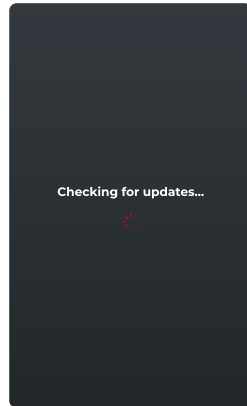
4



Under the settings, you will see your current hardware and firmware data. To search for updates, select „Updates“ and then „Check for Update.“

This process allows the system to connect to the update server to verify if there are any available updates for your hardware and firmware. Ensuring your system is up-to-date is crucial for maintaining optimal performance and security.

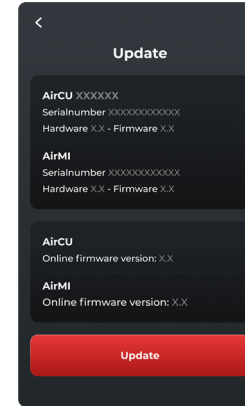
5



The system will search for updates.

autoleveling updates

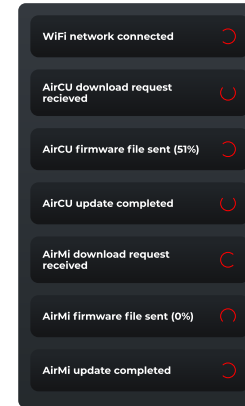
6



The currently available firmware versions will be displayed; select Update to upgrade to this version.

This step allows you to initiate the update process, ensuring your STREETEC autoleveling system benefits from the latest improvements and feature enhancements. Always ensure your device remains connected and avoid interrupting the update process to prevent any issues.

7



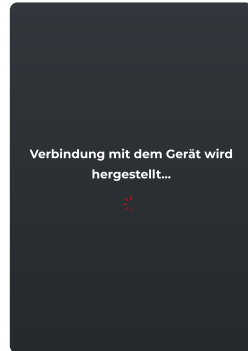
Your phone connects to the STREETEC autoleveling control unit (AirCU) and executes the update. (Step 8)

The progress indicators and the percentage of the current step allow you to monitor the update's progress. (Step 9)

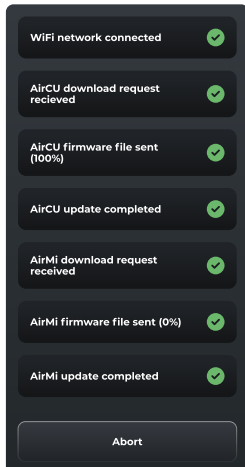
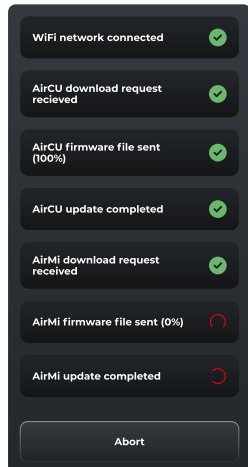
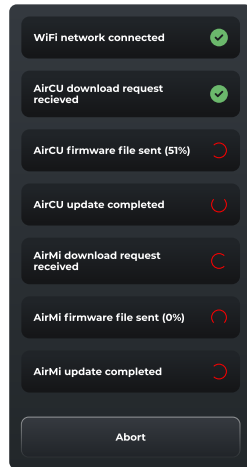
This ensures that you are kept informed about the update status, allowing for a seamless upgrade to your system's firmware.

autoleveling updates

8

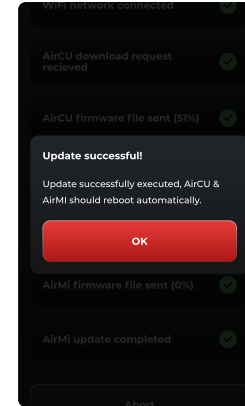


9



autoleveling updates

10



Congratulations! Your STREETEC autoleveling is now up to date.

This means your system has successfully received the latest firmware updates, ensuring improved performance, new features, and enhanced security.

autoleveling beta program

On the following pages, we will show you how to activate Beta Access in the STREETEC autoleveling app.

As a Beta Tester, you have the opportunity to test the latest features and updates before anyone else and provide valuable feedback to improve the app. With this exclusive access, you can also help identify and fix potential bugs before the app becomes available to the general public. Simply follow the steps described below to activate Beta Access in the STREETEC autoleveling app and experience the newest features today!

If you haven't set up the mobile app yet, start on page 74.

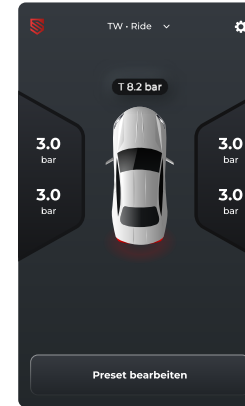
This introduction suggests that becoming a Beta Tester for the STREETEC autoleveling app offers a unique opportunity to engage with and influence the development of the app, ensuring it meets the high standards and needs of its users.



Start the autoleveling app.

autoleveling beta program

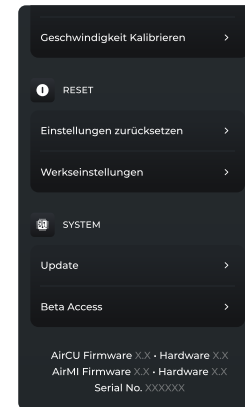
2



To access the settings, go to the gear icon.

This instruction guides you to enter the settings menu of the STREETEC autoleveling app, where you can adjust preferences, update the system, and customize various aspects of the autoleveling functionality.

3

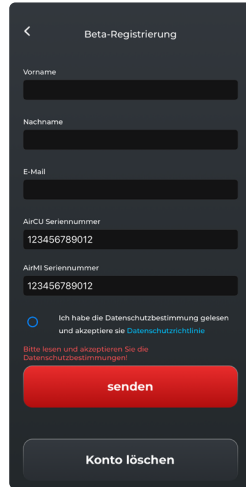


To activate Beta Access in the STREETEC autoleveling app, scroll down to the bottom of the settings and select the Beta Access menu.

This action will take you to a section where you can opt into the Beta program, allowing you to access and test upcoming features and updates.

autoleveling beta program

4



The screenshot shows a registration form titled "Beta-Registrierung" with a back arrow. It contains input fields for "Vorname", "Nachname", "E-Mail", "AirCU Seriennummer", and "AirMI Seriennummer", each with a redacted value. Below the fields is a checkbox with the text "Ich habe die Datenschutzbestimmung gelesen und akzeptiere sie [Datenschutzerklärung](#)". Underneath the checkbox is a smaller line of text: "Bitte lesen und akzeptieren Sie die [Datenschutzbestimmungen](#)". At the bottom, there is a prominent red button labeled "senden" and a grey button labeled "Konto löschen".

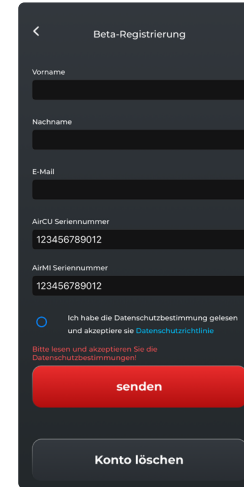
Please fill out the form and take a moment to read the privacy policy. If you agree to it, please confirm. Then click on „Send.“ Your autoleveling will be registered for Beta software. After that, please search for updates to install the latest Beta version of the autoleveling.

A detailed guide on searching for and installing updates can be found on page 74.

By following these steps, you ensure your participation in the Beta program and gain access to the latest features and improvements before they are released to the wider user base. This process also highlights the importance of understanding and agreeing to the privacy policy, ensuring that you are informed about how your data will be used.

autoleveling beta program

5



The screenshot shows the same registration form as in step 4, but with the red "senden" button replaced by a grey "Konto löschen" button. All other elements, including the input fields and the privacy policy text, remain the same.

To deactivate or delete your Beta Tester access:

If you no longer need or want to use the Beta software, you can deactivate and delete your Beta Tester access at any time in the settings of the autoleveling app. Simply go to the „Beta Access“ section and select the „Delete Account“ option for deactivation and deletion.

This allows you to easily opt out of the Beta program and revert to using the standard version of the app without the Beta features and updates.

Component list

part number	description
1120 00 00	STREETEC autoleveling - ECU
1160 00 00	STREETEC autoleveling - harness for second compressor
1732 1 0004	STREETEC autoleveling - pressure sensor block
2013 0 0003	STREETEC autoleveling - HMI touchscreen
2013 1 0015	STREETEC autoleveling - ECU bracket 90°
2013 1 0017	STREETEC autoleveling - ECU bracket 30°
2013 2 0003	STREETEC autoleveling - USB-angle-cable HMI (touchscreen)
2013 2 0004	STREETEC autoleveling - USB-cable 1m
2013 2 0006	STREETEC autoleveling - connection kit for electric
2013 3 0002	STREETEC autoleveling - HMI USB connection kit
2013 3 0005	STREETEC autoleveling - pressure sensor kit
2013 3 0007	STREETEC autoleveling - bracket for water separator
2013 3 0009	STREETEC autoleveling - HMI USB connect kit + alarm buzzer
2013 H01	STREETEC autoleveling - main harness
2013 H02	STREETEC autoleveling - harness for touchscreen
2013 H03	STREETEC autoleveling - harness for height sensors
9909 2 0027	STREETEC autoleveling - height sensor 120° incl. arm and link rod
9909 2 0028	STREETEC autoleveling - harness LF for height sensor (6 meter)
9909 2 0029	STREETEC autoleveling - harness RF for height sensor (6 meter)
9909 2 0030	STREETEC autoleveling - harness LR for height sensor (3,6 meter)
9909 2 0031	STREETEC autoleveling - harness RR for height sensor (3,6 meter)
9909 2 0204	STREETEC autoleveling - valve4 valve block
9909 2 0266	STREETEC autoleveling - tube cutter 0-14mm
9909 2 0363	STREETEC autoleveling - water separator
9909 2 0492	STREETEC autoleveling - bracket for water separator
9909 2 0504	STREETEC autoleveling - pressure sensor PS16-5-1
9909 2 0505	STREETEC autoleveling - valve harness universal
9909 2 0511	STREETEC autoleveling - alarm buzzer
9909 2 0515	STREETEC autoleveling - height sensor link rod

Component list

part number	description
9909 2 0516	STREETEC autoleveling - height sensor arm
9909 2 0538	STREETEC autoleveling - connection diagram
9909 2 0540	STREETEC autoleveling - assembly template ECU
9909 2 0541	STREETEC autoleveling - manual
9909 2 0542	STREETEC autoleveling - assembly template valve4
9909 3 0001	STREETEC autoleveling - mounting kit valve4 + pressure sensor block
9909 3 0002	STREETEC autoleveling - mounting kit ECU - 90°
9909 3 0003	STREETEC autoleveling - mounting kit height sensor
9909 3 0004	STREETEC autoleveling - mounting kit ECU - Standard
9909 3 0005	STREETEC autoleveling - mounting kit Relay
9909 3 0006	STREETEC autoleveling - fitting pack valve4 - 1/4"
9909 3 0007	STREETEC autoleveling - fitting pack water separator - 1/4"
9909 3 0008	STREETEC autoleveling - fitting pack pressure sensor block - 1/4"
9909 3 0010	STREETEC autoleveling - fitting pack valve4 - 3/8"
9909 3 0011	STREETEC autoleveling - fitting pack water separator - 3/8"
9909 3 0012	STREETEC autoleveling - fitting pack pressure sensor block - 3/8"
9909 3 0013	STREETEC autoleveling - fitting pack valve4 - 10 mm
9909 3 0014	STREETEC autoleveling - fitting pack water separator - 10 mm
9909 3 0015	STREETEC autoleveling - fitting pack pressure sensor block - 10 mm
9909 3 0016	STREETEC autoleveling - fitting pack valve4 - 6 mm
9909 3 0017	STREETEC autoleveling - fitting pack water separator - 6 mm
9909 3 0018	STREETEC autoleveling - fitting pack pressure sensor block - 6 mm
9909 3 0019	STREETEC autoleveling - tank connection kit - 1/4"
9909 3 0020	STREETEC autoleveling - tank connection kit - 3/8"
9909 3 0021	STREETEC autoleveling - tank connection kit - 6 mm
9909 3 0022	STREETEC autoleveling - tank connection kit - 10 mm
9909 3 0023	STREETEC autoleveling - mounting kit ECU - 30°
9909 2 0543	T-1/4" G female 1/4" G female 1/4" G female

Declaration of conformity

The STREETEC autoleveling complies with the essential requirements of the European and national Radio Equipment Directive - 2014/53/EU.



The manufacturer / distributor

Streotec GmbH, Industriestraße 12, D-64739 Höchst im Odenwald

hereby declares that the device designated below

STREETEC autoleveling

complies with all relevant provisions of the applied legislation (hereinafter) - including its amendments in force at the time of declaration. The manufacturer bears sole responsibility for issuing this declaration of conformity. This declaration pertains only to the device in the condition in which it was marketed; parts added by the end-user and/or interventions made subsequently are not considered.

The following legal provisions were applied:

Radio Equipment Directive – RED (2014/53/EU)

The conformity with the basic requirements of the Directive is demonstrated through the application of the following standards:

Basic requirements	Standards applied
Safety / Health (RED, article 3.1a)	DIN EN IEC 62368-1:2021-05
EMV (RED, article 3.1b) article	EN 301 489-17 V3.2.4:2020 EN 301 489-1 V2.2.3:2019
radio spectrum (RED, Artikel 3.2)	EN 300 328 V2.2.2:2019-07

Notes on disposal



Notes on disposal!

Do not dispose of the device in household waste! Electronic devices must be disposed of in accordance with the Directive on Waste Electrical and Electronic Equipment (WEEE) at local collection points for electronic waste.

Manufacturer information

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64739 Höchst im Odenwald
Germany



Do you need help?
Please contact our customer service department from Monday to Friday on
+49 (0) 6163 - 939928.



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