



THE POWER OF INNOVATION AND COMFORT

Davilon 4 Series

User Manual

Android multimedia system with Apple CarPlay and Android Auto · 2GB version

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Davilon Europe B.V.

EN

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Chapter 1

Quick start

Six steps from unpacking to a working system with CarPlay or Android Auto. Each step refers to the detailed explanation later in this manual.

1.1

Get started in six steps

1

Check the contents and read the safety rules

Lay out all parts and check them for damage. Read the safety rules before you start.

[3.4 Package contents](#) (p. 13)

[2.3 Installing safely](#) (p. 5)

2

Remove the original radio

Disconnect the negative terminal (–) of the battery as specified by the vehicle manufacturer. Then remove the original radio and inspect the connector on the back.

[4.1 Removing the original radio](#) (p. 16)

3

Choose the correct power cable

Find the supplied cable that fits the connector in your car. Determine whether it is type A, B or C.

[4.3 Choosing the correct power cable](#) (p. 18)

4

Connect the system and test it

Connect the power cable, antenna, GPS antenna, microphone and signal cable. Switch the ignition on and test all functions before you close the dashboard.

[4.14 Power cable wiring diagram](#) (p. 38)

5

Check the CAN bus (type C only)

If the steering wheel controls, lighting and camera work straight away, you do not need to set anything up. If something does not work, connect the system to Wi-Fi. In **Settings > Factory Settings**, select the CAN-bus module and your car model.

[5.4 Setting up the CAN bus in the system](#) (p. 51)

6

Set the language and connect your phone

Select your language and set the date and time. Then open the connection app and connect your phone via USB or wirelessly.

[6.1 Setting the language](#) (p. 56)

[7.3 Apple CarPlay](#) (p. 75)

[7.4 Android Auto](#) (p. 77)



Tip: Something not working as expected? Start with the diagnostic sequence in [9.1 Diagnosis: how to proceed](#) (p. 89). Most problems are caused by choosing the wrong cable or a loose connector.

Chapter 2

Safety

Read this chapter carefully before you unpack, install or use the Davilon system. This helps you prevent injury and damage to the system, the vehicle or other electronic components.

Always follow the instructions and safety warnings in this manual. This is important for the safe operation of the system.

The system is designed to make things easier for you while driving. Functions such as navigation, multimedia and smartphone integration are intended as aids. They never take over the driver's responsibility. The driver always remains responsible for driving the vehicle safely, obeying the traffic rules and operating the system safely. Only operate the system when it is safe to do so.

Always carry out installation and connection work according to the instructions in this manual. Incorrect installation, an incorrect connection or a modification of the system can cause malfunctions or damage to the product or the vehicle. Do not open the housing and do not carry out repairs or modifications unless you are authorised to do so.

! **Caution:** Davilon Europe B.V. is not responsible for traffic offences, unsafe driving or damage caused by incorrect use of the system while driving. Davilon Europe B.V. is also not responsible for damage caused by failure to follow the instructions and safety warnings. See also [11.6 Disclaimer](#) (p. 121).

If you have a question about the installation, use or operation of the system that this manual does not answer, contact Davilon Europe B.V. at info@davilon.eu.

2.1 Signal words in this manual

This manual uses highlighted boxes with a signal word to make important information easy to recognise. Read the explanation below before you continue with the installation or use of the system.

! **Warning:** risk of injury, fire or electric shock. Read this information in full and follow the instruction exactly.

! **Caution:** important safety information, risk of damage to the system or the vehicle, a malfunction or an important limitation. Read this information in full before you carry out the action concerned.

i **Tip:** a practical hint or recommendation for easier or optimal use. Use the tip as additional help with installation, setup or use.

→ **See also:** a reference to another chapter, section or figure with additional information. Follow the reference for more explanation.

2.2 Unpacking safely

Read the safety warnings in the table below before you unpack or install the product. This helps you prevent damage to the system and injury.

Hazard	Icon	What you need to know and do
Small parts		The product and the accessories may contain small parts, such as screws, clips and fixing materials. Keep these out of the reach of young children: there is a choking hazard.
Plastic bags and film		Keep plastic bags, film and other packaging material out of the reach of children. These materials can cause suffocation.
Cables and leads		Keep loose cables and leads out of the reach of children. Do not leave cables lying around unattended during installation. Loose cables can cause entanglement or tripping.
Coin cell batteries		If a supplied remote control contains a coin cell battery, always keep it out of the reach of children. Swallowing a coin cell battery can cause serious internal injury and can be life-threatening. If you suspect that a battery has been swallowed or has entered the body, seek medical help immediately.
Electrical voltage	–	Only connect the product to an electrical system that matches the technical specifications of the system and the vehicle (see 3.5 Technical specifications (p. 14)). An incorrect connection, an incorrect supply voltage or incorrect wiring can cause a short circuit, fire, malfunctions or damage to the product and the vehicle electronics.

2.2.1 Unpacking the product

- 1 Carefully remove the system and all supplied parts from the packaging.
- 2 Compare the contents with the list in [3.4 Package contents](#) (p. 13). Check straight away that the contents are complete.
- 3 Check the system and the accessories for visible damage.

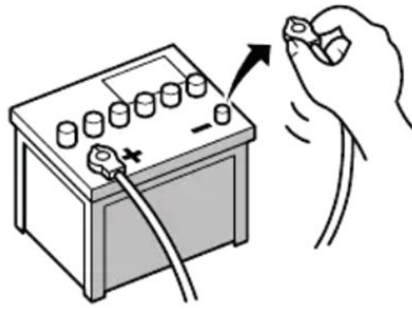
Caution: do not use or install the product if there is transport damage, if parts are damaged or if the delivery is incomplete. If a part is missing or damaged, contact your Davilon dealer or info@davilon.eu.

Keep packaging material, cables and any batteries out of the reach of children and pets. Dispose of packaging material and used batteries in accordance with the applicable regulations (see [10.4 Disposal and recycling](#) (p. 117)).

Tip: keep the original packaging in a safe place. You can use it for shipping later or for warranty claims.

2.3 Installing safely

Warning: only use the system with a 12 V battery with negative ground. A different connection can cause fire, malfunctions or damage to the system.



Disconnect the cable from the negative terminal (-) of the battery before installation.

- 1 Switch the ignition off completely before you make any connections. This reduces the risk of a short circuit.
- 2 Disconnect the negative terminal (-) of the battery before you start the installation (see the figure above). This prevents short circuits in the electrical system.
- 3 Install the system according to the instructions in [4.2 Preparation](#) (p. 17) and [4.3 Choosing the correct power cable](#) (p. 18).
- 4 After installation, check that the brake lights, indicators, windscreen wipers and other essential vehicle functions work correctly.

2.3.1 Mounting location and wiring

Never install the system in a place where it:

- obstructs the driver's view;
- affects the operation of the steering or safety equipment (such as airbags or warning lights);
- can hinder the safe operation of the vehicle.

Note the following when wiring:

- Route cables and wiring so that they cannot obstruct or damage moving parts of the vehicle. Pay particular attention to the steering column, gear lever, handbrake, seat rails and other controls.
- Never route cables under screws or in places with high temperatures. Damaged insulation can cause short circuits, malfunctions or permanent damage to the system.
- Do not use the system's power supply as a power source for other electronic devices. This can exceed the current capacity and cause overheating.
- Always insulate unconnected wires with insulating tape. This prevents safety risks.
- Make sure that all parts are mounted securely and correctly. This is necessary for safety and for the correct operation of the system.
- Only use accessories and parts supplied or recommended by Davilon. Unapproved parts can cause damage, malfunctions or reduced safety.

2.3.2 Parking brake wire

The wire labelled BRAKE in the power cable detects whether the vehicle is parked. Connect this wire to the supply of the handbrake switch.



Warning: incorrect connection or misuse of this wire may be illegal and can cause serious injury or damage. Never tamper with or deactivate the parking brake interlock. This system is an essential safety feature. Disabling it can result in serious injury or even death.

→ See also: 4.14 Power cable wiring diagram (p. 38)

2.4 Driving safely

The driver always remains responsible for driving the vehicle safely and obeying the traffic rules. The system is intended as an aid and must never reduce the driver's attention while driving.

- Do not operate the system in a way that distracts your attention from the traffic. If you want to change settings or functions, first park the vehicle in a safe place and make sure it is stationary.
- Do not operate the system while driving and do not carry out complex actions or settings while driving.
- Only insert or remove media (such as a USB stick or SD card) when the vehicle is completely stationary.
- Do not look at the screen for long periods while driving. This reduces your attention and increases the risk of an accident.
- Playing video while driving may be prohibited by law in some countries. Always check the local legislation. Only use these functions when it is safe and permitted.
- For safety reasons, some functions only work when the vehicle is stationary or the handbrake is applied.
- Keep phone calls to a minimum while driving. Use the hands-free function if necessary, or park the vehicle in a safe place first.
- Always wear your seat belt in accordance with the applicable traffic rules.
- Store the remote control in a safe place where it cannot get under the pedals or between moving parts.

2.4.1 Volume

- Always set the volume to a safe level. If the volume is too high, you can no longer clearly hear important ambient sounds, such as traffic, warning signals and emergency services.
- Do not increase the volume when your hearing has become used to a higher sound level.
- Turn the volume down before you switch the system on. This prevents sudden volume peaks.
- Do not use headphones or earphones while driving if this affects your awareness of traffic or is not permitted by law.



Warning: prolonged exposure to high volume can cause hearing damage or permanent hearing loss.

2.4.2 Navigation

The navigation system is only an aid. It never replaces your own judgement.

- Always check for yourself whether a suggested route is safe and suitable for the current situation. Do not follow a route suggestion that conflicts with the traffic rules, road safety or common sense.
- Treat route guidance as a recommendation only. The system can make mistakes, for example because of an inaccurate vehicle position, a wrong destination, changed traffic situations or outdated map data. Use your own judgement and adapt your route to the current conditions.
- Never use the navigation system as your only source for finding emergency services. The database may not contain a complete or up-to-date overview of police, fire services, hospitals or other emergency services. In an emergency, always consult official sources or ask for help locally.
- The applicable traffic rules, road signs and current road conditions always take precedence over the information on the screen. Always obey the traffic laws.

- The software depends on external data sources. As a result, the information may become outdated or incomplete over time. If the navigation information differs from the actual situation, always follow the traffic rules and the current conditions.
- Look at the screen as little as possible while driving. This prevents distraction.

The navigation system does not provide information on:

- current traffic rules;
- technical vehicle restrictions, such as weight, height, width, load or speed limits;
- road characteristics, such as gradient, road surface or road class;
- physical obstacles, such as the height or width of bridges and tunnels;
- other current traffic or road conditions.

Therefore, always rely on your own judgement, your driving experience and the current situation on the road. You are responsible for driving safely, obeying the traffic rules and assessing the traffic situation.

2.4.3 Reversing camera (optional)

- Never rely on the reversing camera alone. Always also check the area around the vehicle using the mirrors and your own observation. Be aware of blind spots and objects that may not be visible on the screen.
- Only use the camera input of the system for a reversing or mirror-image camera. Any other use can cause damage or dangerous situations.
- The reversing camera is an aid for reversing, for example when manoeuvring with a trailer or parking in a tight space. Never use this function for entertainment or other purposes.
- The camera image may be displayed mirrored or upside down. See [4.16 Setting up the reversing camera](#) (p. 41).

2.5 Using the device safely

- Only use the system for its intended purpose: as a multimedia system in vehicles. Do not use it for applications it is not intended for. See [3.3 Intended use](#) (p. 12).
- Handle the system with care. Shocks, impacts or drops, even from a low height, can damage internal components. This can cause malfunctions or poorer performance.
- Do not expose the system to heavy mechanical stress, pressure or deformation. This can damage the housing or internal components.
- Always make sure the installation and mounting are correct and safe, following the instructions in this manual. Incorrect installation can cause malfunctions, damage to the system or unsafe situations.
- Never place or leave metal objects, such as tools or coins, in or near the system. This can cause a short circuit and damage to the system.
- Do not open the housing and do not carry out repairs or modifications. The system contains no user-serviceable parts. See [10.2 Maintenance and replacing the fuse](#) (p. 116).

Take the system out of service if safe operation can no longer be guaranteed, for example if:

- the system is visibly damaged;
- the system no longer works properly;
- the system has been exposed to unfavourable conditions for a long time;
- the system was severely damaged during transport.

2.5.1 Smoke, odour or malfunction

 **Warning:** if you see smoke, smell an unusual odour or hear unusual noises, switch the system off immediately and contact your dealer. Do not continue to use the system in this condition. Otherwise serious damage, fire or electric shock may result.

Also stop using the system immediately if other malfunctions occur, such as a frozen screen, poor sound quality or other defects. Continued use can lead to unsafe situations or permanent damage. See [9.9 Problem not solved](#) (p. 114).

2.5.2 Water and moisture

 **Warning:** the system is not waterproof.

- Never operate the system with damp or wet hands. This can cause a short circuit or electric shock.
- Do not expose the system and the remote control to rain, moisture or water. Moisture can cause short circuits, malfunctions or permanent damage to internal components.
- Do not pour or place liquids on or directly next to the system.

If liquid does get into the system:

- 1 Stop using the system immediately and switch it off.
- 2 Park the vehicle in a safe place.
- 3 Switch the ignition off (ACC OFF).
- 4 Contact your dealer.

 **Warning:** do not use the system again until it has been checked. Otherwise fire, electric shock or a serious malfunction may result.

2.5.3 Heat and ventilation

- The slots and openings in the housing provide ventilation and prevent overheating. Never cover or block these openings. This can cause heat build-up, malfunctions or fire.
- After prolonged exposure to direct sunlight, the temperature in the vehicle can rise sharply. Let the interior and the system cool down sufficiently before you switch the system on.
- Keep the system away from hot or burning objects, such as cigarettes or lighters. These can cause damage or fire.

2.5.4 Touchscreen

- The screen is manufactured to high precision, but may contain a few inactive pixels. This is normal and not a defect.
- Do not expose the screen to direct sunlight.
- Only operate the touchscreen with your finger. Do not use sharp objects, such as ballpoint pens: these can damage the screen. Preferably do not wear gloves.
- In extreme cold or heat, chemical processes in the screen can slow down or cause malfunctions. The screen then responds more slowly, shows a poorer image or is out of sync with the sound.

- Do not direct warm air from the air conditioning or heater straight at the screen. Excessive heat can damage the screen and cause condensation.
- Dust can impair the operation of the touchscreen. See [10.1 Cleaning](#) (p. 116).
- A screen protector can reduce the touch sensitivity of the screen.

2.5.5 Preventing a flat battery

- Do not use the system in a vehicle without an ACC wire or ACC circuit.
- Keep the engine running when you use the system. Without the engine running, the battery can go flat.
- If the battery is disconnected or goes completely flat, the memory may be erased. Set up the system again afterwards.

2.6 Remote control battery

This section applies if a remote control with a coin cell battery is supplied.



Warning: always keep coin cell batteries out of the reach of children, babies and pets. Swallowing a coin cell battery can cause serious injury. If a battery is swallowed, seek medical help immediately. See also the table in [2.2 Unpacking safely](#) (p. 5).

- Do not place the remote control near open flames, heat sources or direct sunlight. Excessive heat can damage the coin cell battery or cause it to leak or ignite.
- Coin cell batteries are not rechargeable. Never try to charge them.
- Do not modify, open or dismantle batteries.
- Never touch leaking material from a damaged battery and do not inhale fumes from a damaged battery. Take appropriate precautions to avoid contact with battery fluid.
- A battery contains chemicals that can be harmful. Never open, damage or burn a battery and do not insert objects into an exposed battery.
- Do not let children or animals come into contact with exposed batteries.
- Never throw batteries into a fire and avoid short circuits. This can cause leakage, explosion or fire.
- Even a flat battery can be dangerous. Therefore, always handle used batteries with care.

2.6.1 Inserting a new battery

- 1 Choose a battery of the same type and size as the original battery. Only use batteries within the stated period of use.
- 2 Clean the contacts of the battery and the contacts in the remote control.
- 3 Insert the battery. Observe the polarity: plus (+) and minus (-) facing the correct way.
- 4 Close the battery compartment properly and tighten the screw or other fastener securely.
- 5 Dispose of the used battery in accordance with the applicable regulations so that it is processed safely and correctly. See [10.4 Disposal and recycling](#) (p. 117).

Chapter 3

About this product

Thank you for choosing a Davilon multimedia system from the Davilon 4 series. This system gives you a modern and versatile solution for entertainment, communication and navigation on the road.

The Davilon system has been developed with a focus on reliability, ease of use and safety. All important functions are clearly arranged and within easy reach, so you get more out of every journey. We hope you enjoy your Davilon multimedia system and wish you many safe kilometres.

3.1 About this manual

This manual describes the 2GB version of the Davilon 4 series. It contains all the information you need to install, set up and use the system correctly: practical instructions, technical information and tips for everyday use. The information has been compiled from technical documentation and practical experience.

The manual covers, among other things:

- installation and wiring: [4.3 Choosing the correct power cable](#) (p. 18), [4.14 Power cable wiring diagram](#) (p. 38) and [5.4 Setting up the CAN bus in the system](#) (p. 51);
- package contents and components: [3.4 Package contents](#) (p. 13) and [4.9 Cables and accessories](#) (p. 33);
- system settings and functions: [6.1 Setting the language](#) (p. 56) and the rest of that chapter;
- radio, media and Bluetooth: [8.2 FM and AM radio](#) (p. 86), [8.1 USB stick and SD card](#) (p. 84) and [7.1 Bluetooth](#) (p. 69);
- Apple CarPlay and Android Auto: [7.3 Apple CarPlay](#) (p. 75) and [7.4 Android Auto](#) (p. 77);
- connection options for reversing cameras and DAB+: [4.15 Connecting a reversing camera \(optional\)](#) (p. 40) and [8.3 DAB+ digital radio](#) (p. 87);
- troubleshooting: [9.1 Diagnosis: how to proceed](#) (p. 89);
- maintenance, safety and warranty conditions: [10.1 Cleaning](#) (p. 116), [2.3 Installing safely](#) (p. 5) and [11.1 Warranty](#) (p. 119).

Read the entire manual before you install or use the system. This ensures that you install the system correctly and safely and get the most out of it. At the very least, read [2.3 Installing safely](#) (p. 5) first.

Caution: this manual is updated regularly. Images, menus and functions may therefore differ from the software version on your system. If you have any suggestions or comments about this manual, please send them to info@davilon.eu.

3.2

About Davilon

Davilon is a Dutch company that develops and supplies high-quality multimedia systems and accessories for a wide range of vehicles. Davilon works in accordance with the applicable European quality and safety standards and pays close attention to the quality, reliability and safety of its products.

The systems are developed with a focus on innovation, comfort and ease of use. Optimal integration with the vehicle is central to this. Davilon believes in "The Power of Innovation and Comfort": technology that makes driving smarter, more comfortable and more user-friendly. This vision is the basis of every Davilon product: modern technology that works intuitively, performs reliably and fits in well with the everyday use of your vehicle.

3.2.1 Innovation and safety

Davilon develops its products with attention to current technological developments in the automotive sector. Davilon continuously works on improvements to software, compatibility, functionality and user experience.

The products are tested against the relevant quality and safety requirements, in accordance with the applicable European directives and standards. This includes attention to electrical safety, durability and electromagnetic compatibility (EMC).

3.2.2 Cooperation and quality

Davilon works with installers, distributors and automotive specialists. This ensures that the products not only work well technically, but are also practical to use. Practical experience is used to keep improving products, software and documentation. In this way, Davilon combines technical development with knowledge from automotive practice.

3.2.3 Our promise

With Davilon, you choose technology developed with attention to quality, ease of use and reliable operation. From everyday journeys to long trips: Davilon aims to make every journey smarter, safer and more comfortable.

3.2.4 Brand name and legal entity

Davilon is the brand name under which Davilon Europe B.V. offers its products and services. Where this manual refers to "Davilon" in connection with the company, this means Davilon Europe B.V. Product names such as "Davilon multimedia system" and "Davilon product" refer to products offered under the Davilon brand. Davilon Europe B.V. is the legal entity behind the Davilon brand. Davilon Europe B.V. is responsible for the obligations in this manual, insofar as they apply to it.

3.3

Intended use

The Davilon system is designed for installation in suitable passenger cars, commercial vehicles and motorhomes. Depending on the vehicle and version, the system replaces or extends the original multimedia system. It offers features such as navigation, multimedia and wireless connections.

Which functions are available and to what extent original vehicle functions are retained depends on the vehicle, the version and the chosen connection.

- Before installation, always check that the system and the supplied connection components are suitable for your vehicle. See [4.3 Choosing the correct power cable](#) (p. 18).
- Only use the system according to the instructions and applications described in this manual. Use outside the intended scope is not recommended.



Warning: incorrect installation, connection or use can cause malfunctions, damage to the system or vehicle and, in some cases, personal injury. Therefore, always follow the installation and safety instructions in this manual.



See also: Davilon declares that the system complies with the applicable European laws and regulations (CE, RoHS): [11.5 Declaration of conformity](#) (p. 120)

3.4 Package contents

The system is supplied with the parts and accessories required for the version concerned. The exact package contents depend on the model, the vehicle type and the chosen configuration.

Some versions include several power or connection cables for different vehicle variants. You may therefore not use all of the supplied cables or accessories.

Depending on the version, the package may contain, among other things:

- Davilon multimedia system (head unit);
- power and connection cable(s) (ISO or vehicle-specific);
- external microphone;
- GPS antenna;
- USB extension cables (2×);
- RCA cable(s);
- camera input cable;
- mounting hardware (mounting brackets, screws and clips);
- separate front panels, buttons or cover caps (depending on the model);
- external speaker (if applicable);
- remote control (depending on the version);
- manual.



Power cable



RCA cable



USB extension cable (2×)



GPS antenna



External microphone



Camera input cable



External speaker

! Caution: not all of the parts listed are supplied as standard. Always check which parts you have actually received. The contents depend on the Davilon model, the vehicle and the available functions.

! Caution: the images in this manual are for illustration purposes. The shape, colour, design and connection of parts may differ from the examples. This does not necessarily mean that a part is missing or that the wrong part was supplied. If something really is missing or damaged, see [2.2 Unpacking safely](#) (p. 5).

3.5 Technical specifications

The table gives an overview of the main technical specifications of the system. The exact specifications may vary by model and version. If in doubt, always consult the product specifications of your Davilon model.

Category	Feature	Specification
Power supply	Operating voltage	12 V DC
Power supply	Operating voltage range	10.8–16 V
Power supply	Maximum current consumption	10 A
Screen	Type	Touchscreen
Screen	Resolution	1024 × 600 pixels
Screen	Size	6, 7, 9 or 10 inch (depending on model)
Radio	Wavebands	FM and AM
Radio	FM range	87.5–108 MHz
Radio	RDS support	Yes
Connectivity	Bluetooth	5.0
Connectivity	USB	2.0

Category	Feature	Specification
Connectivity	Wi-Fi	Yes
Operating system	Platform	Android
Memory	RAM	2 GB
Memory	Storage	64 GB
Physical	Dimensions	Depending on model
Physical	Weight	approx. 1.5–2.0 kg
Audio	Output power	4 × 45 W max. / 4 × 22 W RMS
Certification	Approval marks	CE, RoHS

→ See also: [11.5 Declaration of conformity](#) (p. 120)

Chapter 4

Installation

You remove the original radio, prepare the installation, choose the correct power cable and connect the Davilon system step by step. Check each connection before you continue and test all functions before you finally mount the system in the dashboard.

4.1

Removing the original radio

In most cases you first need to remove the original radio or the original multimedia system from the vehicle. Removal differs by make, model, year of manufacture and version. Earlier modifications to the vehicle can also determine how the original system is mounted and connected. This manual therefore does not give a universal removal procedure. Before removal, always consult vehicle-specific documentation or reliable instructions that match your vehicle.

4.1.1 Practical tips

- Find removal or installation instructions that are specific to the make, model and year of manufacture of your vehicle.
- For example, search for the combination: make + model + year + "radio removal".
- English search terms usually give more vehicle-specific instructions.
- Examples of searches: "Toyota Aygo 2018 radio removal" or "Toyota Aygo radio installation".
- Before you start, check that you have the right tools.
- Preferably use plastic trim removal tools. These prevent damage to dashboard panels and trim parts.

4.1.2 Removing the radio

- 1 Remove the fixings of the panels and the radio. Original radios and dashboard panels may be held in place by screws, clips, locking devices or vehicle-specific mounting brackets.
- 2 Carefully pull the radio forwards. Do not pull it all the way out of the dashboard as soon as it comes loose.
- 3 Check which connectors, antenna cables and other connections are attached at the back.
- 4 Take clear photos of all original connections and wiring. You will use these photos later as a reference when installing the Davilon system.
- 5 Release the connectors according to their original locking mechanism and disconnect them. Never pull on the wires.

! **Caution:** Never force parts that do not come loose easily. First check whether there are any remaining fixing points. Careful removal is essential for a safe and well-fitting installation. Careless removal can lead to damage to the dashboard, electrical faults or loss of existing functions.

4.1.3 Retrofitted equipment

Check whether additional equipment has been installed in the vehicle previously, such as a car kit, external amplifier, reversing camera or other aftermarket electronics. Such equipment can affect the available connections, the installation space or existing vehicle functions.

4.2 Preparation

Good preparation reduces the risk of mounting problems, damage and incorrect connections. Therefore, take enough time to prepare the workplace, the vehicle and the parts. This way you work safely and carefully, you make sure that all parts are present, you prevent damage to the vehicle and the system, and you ensure a clear and correct installation.

4.2.1 Installation sequence

Follow this sequence carefully and check each connection before you continue with the next step. An incorrect or incomplete connection can cause malfunctions, loss of functions or damage to the system or the vehicle electronics. The exact connection method may differ by vehicle, version and type of Davilon system.

Step	Description	Purpose
1	Preparation	Prepare the vehicle and the workplace and check the supplied parts (this section).
2	Choose the correct power cable	Determine which supplied cable set is suitable for your vehicle: 4.3 Choosing the correct power cable (p. 18).
3	Connect the main power cable	Connect the system to the vehicle's connector, according to the diagram for type A, B or C.
4	Connect additional cables and accessories	If applicable, connect the antenna, GPS antenna, USB cables, microphone, camera and other accessories: 4.9 Cables and accessories (p. 33).
5	Check the installation	Check the connections and test the relevant functions before you finally mount the system in the dashboard.
6	Additional configuration	If applicable, set up the CAN-bus module, the steering wheel controls and other vehicle-specific functions: 5.4 Setting up the CAN bus in the system (p. 51).

i Tip: If you are an experienced installer, use the table as a quick guide. Even with installation experience, always check that the connections and the configuration match the vehicle and the Davilon system.

Recommended preparation:

- Read this entire chapter before you start the installation.
- Make sure the vehicle is parked safely and the ignition is switched off completely.
- Check that all required parts, cables and tools are present.
- Never force a connector that does not seem to fit properly.
- Only mount the system permanently after you have checked all connections and functions.

4.2.2 Workplace and vehicle

- 1 Park the vehicle in a level, safe and well-lit place. Make sure it cannot roll away.
- 2 Switch the ignition off completely, remove the key if possible and switch off all electrical consumers.
- 3 Consult the vehicle manufacturer's instructions on disconnecting the 12 V battery. If these instructions require the battery to be disconnected, disconnect the negative battery terminal (–) first, before you change any electrical connections.
- 4 Protect the dashboard, centre console and surrounding interior panels with a soft cloth or protective mat.
- 5 Remove the original radio (4.1 Removing the original radio (p. 16)). Keep the original screws, clips and other fixing materials in a safe place.
- 6 Before disconnecting, take clear photos of the original wiring, connectors and connections. Use them as a reference during installation.

! Caution: Never work on electrical connections while the ignition is on. Always follow the vehicle manufacturer's instructions when disconnecting and reconnecting the battery.

4.2.3 Parts and tools

- 1 Compare the parts received with the package contents (3.4 Package contents (p. 13)).
- 2 Check that the required power cable, any CAN-bus module and the accessories are present.
- 3 Before installation, check cables, connectors and pins for visible damage.
- 4 Have the required tools ready, for example:
 - plastic trim removal tools;
 - Phillips and flat-head screwdrivers;
 - multimeter or suitable voltage tester;
 - suitable cable insulation or wire sleeves;
 - cable ties for a neat and safe installation.

Once the preparation is complete, choose the correct power cable.

4.3 Choosing the correct power cable

The power cable connects the system to the vehicle's electrical system. The correct cable is essential for stable operation of all functions, such as the power supply, ignition detection, lighting, steering wheel controls and communication via the CAN-bus module. The wrong cable or connection can lead to loss of functions, malfunctions, CAN-bus errors or damage to the system or the vehicle electronics. Therefore, do not connect any cable until you have checked that it is suitable for your vehicle and your Davilon system.

In this step, you:

- choose the correct cable set for your vehicle;
- check that the connection matches the original vehicle connector;
- determine whether your installation uses a CAN-bus module;
- prevent an incorrect power or signal connection.

4.3.1 Step-by-step plan

Various power cables are available in the Davilon range. Which cable you receive depends on the vehicle for which the system was purchased. Sometimes several power cables are supplied. Usually only one fits your vehicle; the others are for other vehicle variants and you do not use them. The example below shows how to choose the correct cable.

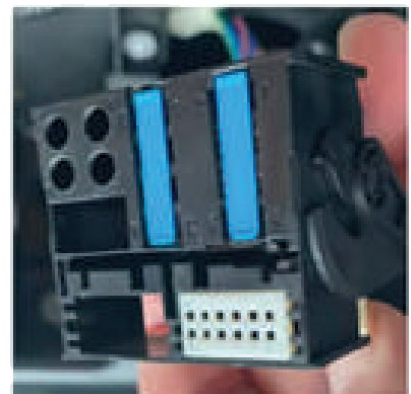
- 1 Take all supplied power cables out of the packaging and lay them side by side on a flat surface. This lets you see at a glance which cable variants have been supplied.
- 2 Remove the original radio and look at the connector on the back. Pay close attention to the shape, pin layout and locking mechanism of the connector.
- 3 Compare this connector with the supplied power cables. Find the cable whose connector fits the original vehicle connector. Also check whether one of the cable sets includes a CAN-bus module.
- 4 Check that the other end of that cable fits the connection on the back of the Davilon system properly. Never force a connector that does not fit properly.
- 5 Confirm your choice: the cable must fit properly at both ends, on the vehicle connector and on the system.
- 6 Use the table in [4.3.2 Identifying cable types](#) (p. 20) to determine which type of cable you have. Then follow the connection instructions for that type.



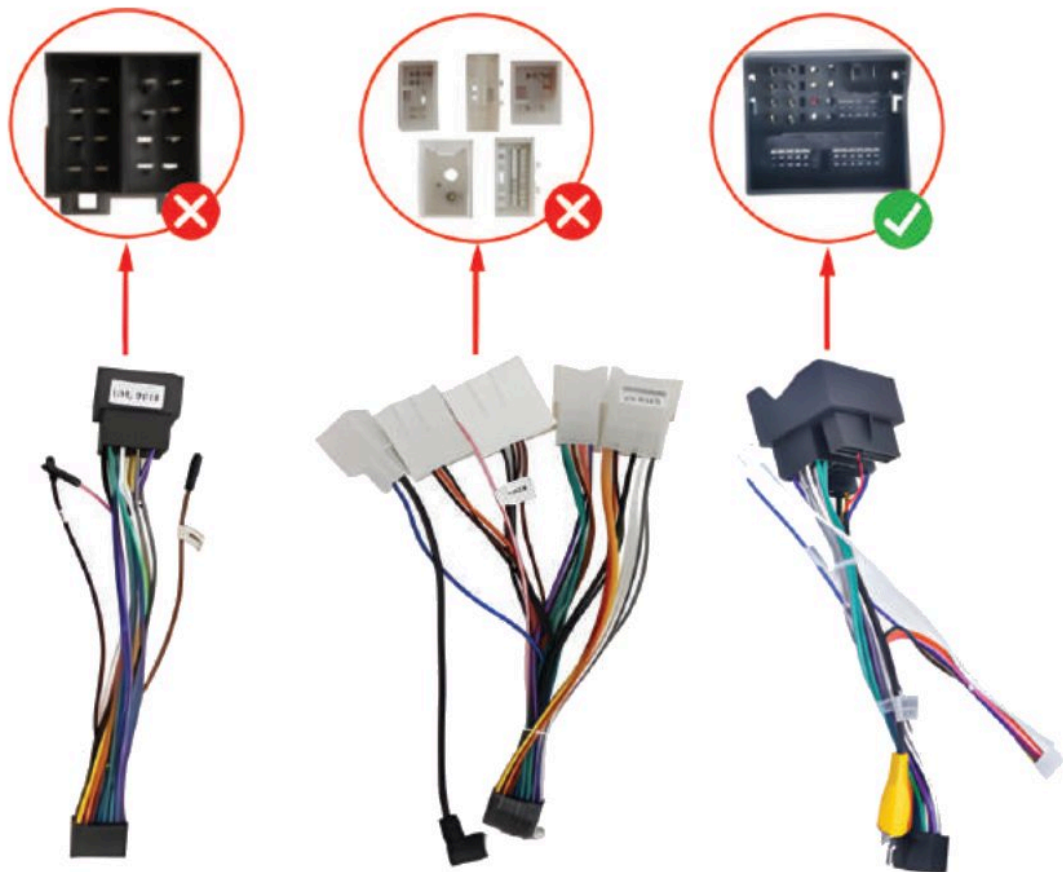
Lay all supplied power cables side by side.



Back of the original radio: look at the shape of the connection.



Original vehicle connector: compare shape, pin layout and locking mechanism.



Example: only cable 3 fits the vehicle connector. Cables 1 and 2 are for other vehicle variants and you do not use them for this installation.

4.3.2 Identifying cable types

Use this quick check:

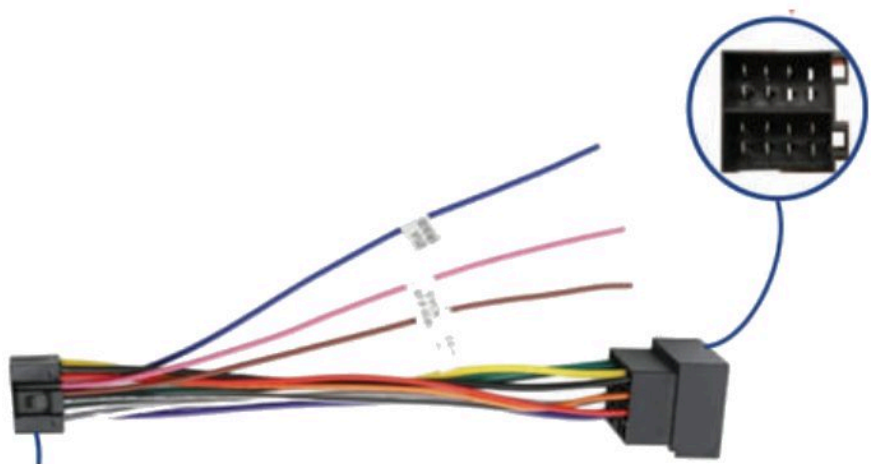
- Is there a black CAN-bus module in the wiring harness? Then you have type C.
- No module, but two black ISO connectors and many loose coloured wires? Then you have type A.
- No module, but one vehicle-specific connector (usually blue or grey) and an antenna plug? Then you have type B.

Type	Used for	Identification	Instructions
A – universal ISO cable	Vehicles with a standard ISO connection, where no vehicle-specific CAN-bus module is required. Mainly older vehicles.	Two black ISO connectors (power/audio), no module, several loose coloured wires	4.4 Type A – universal ISO cable (p. 21)
B – vehicle-specific, without CAN bus	Vehicles without CAN bus, with a make- or model-specific connection	One continuous wiring harness, vehicle-specific connector (usually blue or grey), antenna plug, no module	4.5 Type B – vehicle-specific cable without CAN bus (p. 23)
C – vehicle-specific, with CAN-bus module	Vehicles in which functions run via the CAN bus: steering wheel controls, lighting, ignition detection, parking sensors, camera	Black CAN-bus module in the wiring harness, white pin connectors towards the radio/module, large black main connector (usually Quadlock)	4.6 Type C – cable with CAN-bus module (p. 25)

→ **See also:** Identifying CAN-bus modules and their labels: [5.3 Identifying the CAN-bus module](#) (p. 44).
All wire labels: [4.14 Power cable wiring diagram](#) (p. 38).

4.4 **Type A – universal ISO cable**

This universal cable is for vehicles that do not require a CAN-bus module. It provides the basic power supply and the speaker signals of the system. This type of cable is mainly used in older vehicles or vehicles with a standard ISO connection, without a vehicle-specific connector. It is the standard power cable for universal Davilon systems. Depending on the make and type of vehicle, an adapter plug is sometimes required.



Type A cable: one wiring harness with loose coloured wires and two black ISO connectors.

Caution: This cable has no CAN-bus module or other signal interface. You connect all required functions directly to the corresponding vehicle wiring.

4.4.1 Identification

Part	Characteristic
Main connector (ISO connector)	Black rectangular ISO connector (2 × 8 pins), usually divided into two parts for power and audio. The connector plugs directly into the car radio. Two black ISO connectors, often joined together.
Loose wires	One continuous wiring harness without branches, with several wires, each with a label (see the table below)
Cable labels	Small white labels on the wires for quick identification of functions, for example "REVERSE" and "ILLUMI"
CAN-bus module	Not present

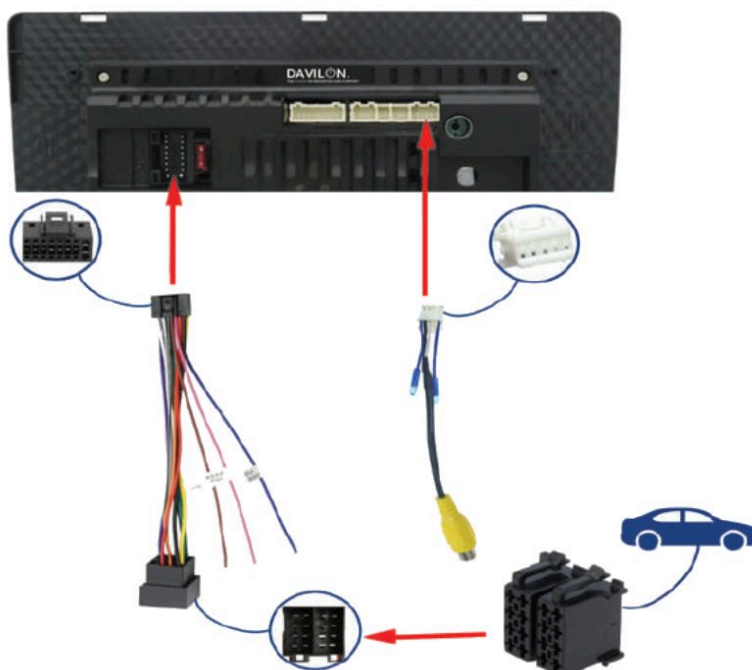
Wire	Function
ACC	Switched power supply (ignition)
BATT	Permanent power supply
Ground	Ground (–)

Wire	Function
ANT / REM	Control signal (+12 V) for an active antenna or amplifier
ILLUMI	Radio button illumination

4.4.2 Connecting

For correct operation, always make at least these two connections:

- the ISO power cable: provides the power supply to the system;
- the multifunction signal cable (camera / Bluetooth / Wi-Fi): always connect it, even if there is no reversing camera. This connection is important for a stable Bluetooth and Wi-Fi connection.



The main connection points of the type A cable. Connect both connectors before you start using the system.

- 1 Connect the black power connector of the ISO cable to the power socket on the back of the system.
- 2 Connect the two ISO connectors to the vehicle's ISO connectors. Use an adapter plug if necessary.
- 3 Connect the multifunction signal cable to the white socket on the back of the system. Do this even if there is no reversing camera (4.11 Multifunction signal cable (Wi-Fi, Bluetooth, camera) (p. 36)).
- 4 Always insulate unused wires (such as REVERSE and AMP OUT) properly with tape to prevent faults.

Caution: If you do not connect the signal cable, CarPlay, Bluetooth and other wireless functions may work poorly.

Caution: Do not use connecting terminals or connection methods that could put voltage on the speaker connections. This can damage the system's internal amplifier.

Connection tips:

- If the system does not retain its settings after the ignition has been switched off, use a multimeter to measure which wire on the vehicle side supplies a permanent +12 V and which one only supplies power

with the ignition on. Only swap the ACC and BATT wires if the measurement confirms this.

- The ILLUMI wire is for the radio button illumination. You may connect this wire to ACC (switched power supply). The button illumination then switches on and off automatically with the ignition.

4.4.3 Checks after connecting

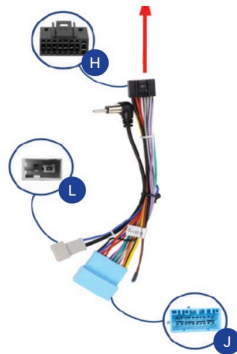
- 1 Switch the ignition on and check that the system starts up correctly.
- 2 Check that the illumination (ILLUMI) responds to the ignition switch.
- 3 Connect a fan if your system has one: [4.8 Connecting and setting up the fan](#) (p. 32). If your system does not have a fan, continue with [5.1 Steering wheel controls](#) (p. 43).

4.5 Type B – vehicle-specific cable without CAN bus

This cable is for vehicles that do not require a CAN-bus module but do have a make- or model-specific power connector. The vehicle-specific connector plugs directly into the original vehicle connector. The cable provides the power supply and the basic connections of the system. Depending on the version, there is also a connection for the antenna signal.

4.5.1 Identification

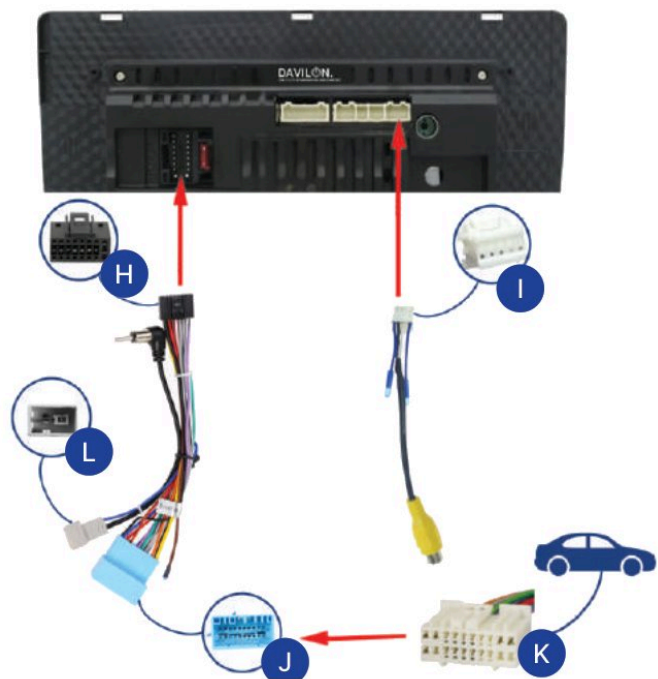
- No CAN-bus module.
- One continuous wiring harness with a fixed vehicle-specific connector (J), usually blue or grey.
- Integrated antenna connection (L).
- Fewer loose wires than type A.



Type B cable: H = black main connector to the system, L = antenna connection, J = vehicle-specific connector (blue here).

4.5.2 Wiring diagram

The diagram below shows, in the correct order, how to connect the vehicle-specific power cable without CAN bus. The connection points are marked with the letters H to L.



Letter	Part	Connect to
H	Main power cable: black power connector (vehicle-specific); provides the power supply	Main power socket on the back of the system
I	Multifunction signal cable (camera / Bluetooth / Wi-Fi), white connector with yellow RCA	White socket on the back of the system; always connect
J	Vehicle-specific connector of the Davilon cable (vehicle-side coupling). The shape differs by vehicle, but it always fits the original connector.	Original vehicle connector (K)
K	Original vehicle connector (harness connection): the physical connection between the vehicle wiring and the Davilon power cable	Connector J
L	Antenna input	Original antenna connector of the vehicle; the plug at the other end goes into the FM/AM input of the system

- 1 Connect the black power connector (H) to the main power socket on the back of the system.
- 2 Connect the multifunction signal cable (I), even if there is no reversing camera. It is required for stable Bluetooth and Wi-Fi.
- 3 Connect the vehicle-specific connector (J) to the original vehicle connector (K).
- 4 Connect the vehicle's original antenna connector to the FM/AM input of the system via the antenna input (L).
- 5 Check that all connections are secure and that no cables or wires are trapped.
- 6 If you disconnected the battery, only reconnect it after you have checked all connections. Then test the system.

Caution: Only connect the antenna plug to the antenna input intended for it. For each connector, check that it goes onto the correct connection.

4.5.3 Checks after connecting

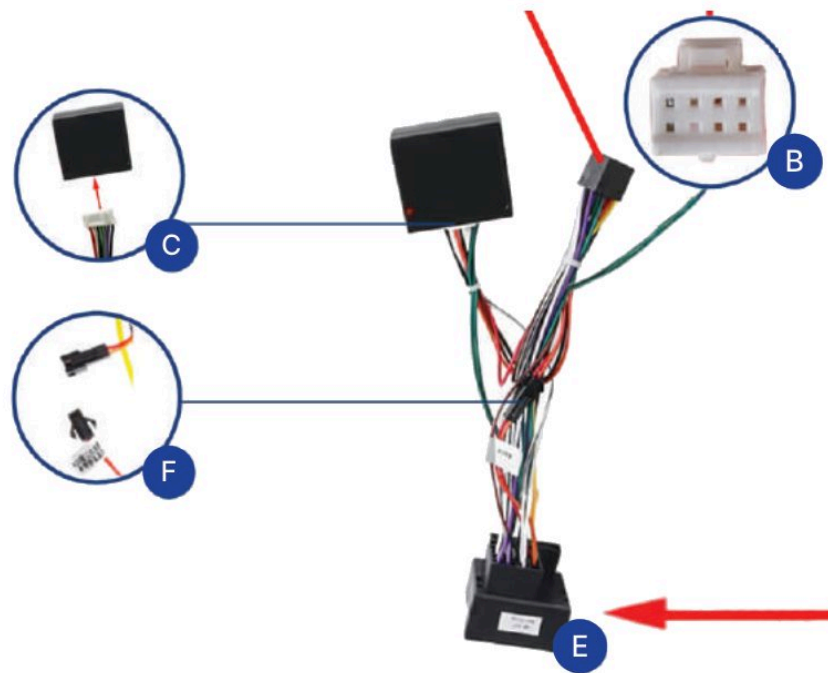
- 1 Switch the ignition on. Check that the system starts up correctly and that the sound works.
- 2 Switch the ignition off. Check that the system switches off.
- 3 Test the radio function and the Bluetooth connection.
- 4 Connect a fan if your system has one: [4.8 Connecting and setting up the fan](#) (p. 32). If your system does not have a fan, continue with [5.1 Steering wheel controls](#) (p. 43).

4.6 Type C – cable with CAN-bus module

This cable is for vehicles in which certain functions are controlled via the CAN bus, such as steering wheel controls, ignition detection, lighting and parking sensors. You can identify the cable by the parts and connections below.

4.6.1 Identification

Letter	Part	Description
B	CAN-bus connector	White, square 8-pin connector that plugs into the back of the system. Two wires are attached to this connector for communication of the steering wheel controls via the CAN bus. This connection is always used together with a power cable with CAN-bus module.
C	CAN-bus module	Black module that processes the vehicle's CAN-bus signals. It usually bears a marking such as "CANBUS".
E	Vehicle-side main connector	Large black connector (usually Quadlock) that fits the original vehicle connector.
F	Intermediate connector (if present)	Some vehicles (including Volkswagen) require an additional connector to correct the switch-off behaviour. If the system does not switch off when you remove the key, disconnect this intermediate connector. Not every system has this connector; if it is not present, skip this step.

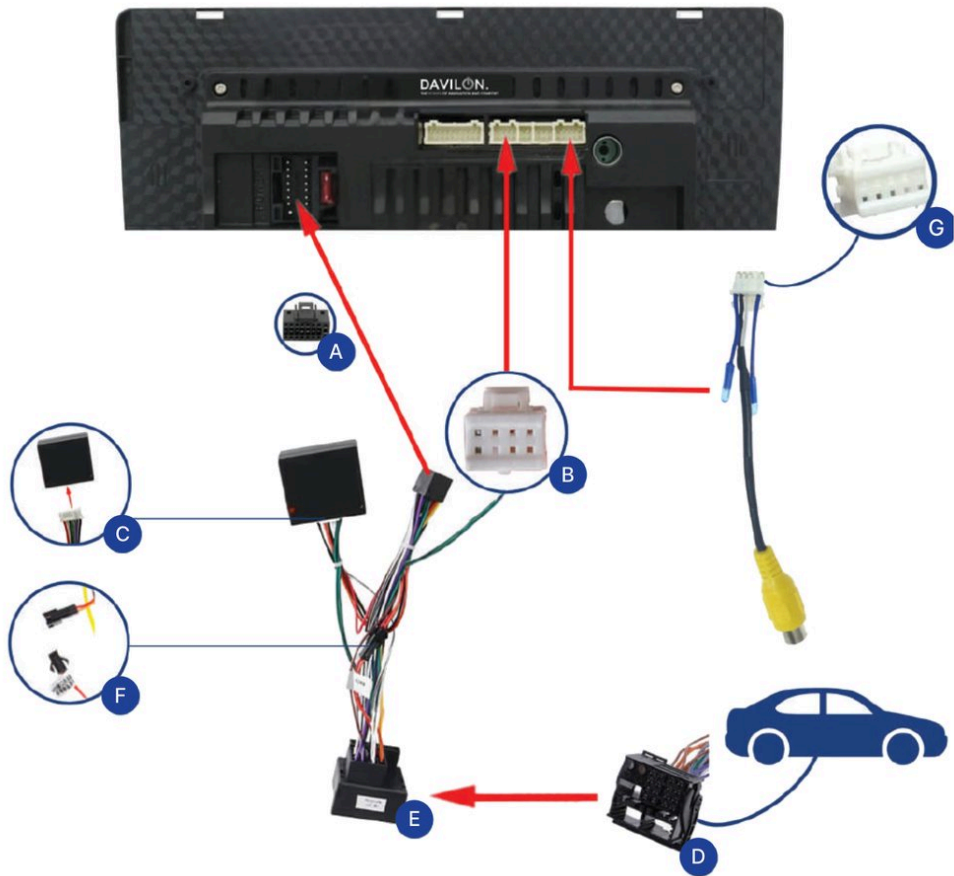


Position of connections B, C, E and F in the wiring harness.

The type C cable comes in two versions with additional connections: for vehicles with an original reversing camera and for vehicles with an original reversing camera and/or factory amplifier. If your vehicle has one of these functions, also follow [4.6.4 Version with original camera or factory amplifier](#) (p. 28).

4.6.2 Wiring diagram

Follow the connection sequence carefully and check that all required connections have been made properly. The diagram below shows connection points A to G.



Letter	Part	Connect to
A	16-pin power connector (black)	Power socket on the back of the system
B	CAN-bus connector: white square 8-pin connector; passes on signals including those of the steering wheel controls	CAN-bus input (white socket) on the back of the system
C	CAN-bus module with matching connector	The connector in the wiring harness, not the system itself
D	Original vehicle connector	Connector E
E	Vehicle-side connector (main connector) of the Davilon cable	Original vehicle connector D
F	Intermediate connector (not always present)	Remains connected; only disconnect if the system does not switch off
G	Multifunction signal cable with yellow RCA; antenna connections for Bluetooth, Wi-Fi and CarPlay are integrated into it	White socket on the back of the system; always connect

- 1 Connect the 16-pin power connector (A) to the power socket on the back of the system.
- 2 Connect the CAN-bus connector (B) to the CAN-bus input of the system. CAN-bus signals, such as those of the steering wheel controls, pass through this connection.
- 3 Connect the matching connector to the CAN-bus module (C).
- 4 Connect the multifunction signal cable (G), even if you do not use a reversing camera. This connection is important for stable operation of Bluetooth, Wi-Fi and CarPlay.
- 5 Check all connections. Only then connect the original vehicle connector (D) to the connector of the Davilon cable (E). This connects the vehicle wiring to the system.

Caution: The CAN-bus module (C) is not connected directly to the system. The module remains part of the wiring harness and is connected according to the wiring diagram.

Intermediate connector (F): on some vehicles (including Volkswagen), this connector corrects the switch-off behaviour. If the system does not switch off when you remove the key, disconnect the intermediate connector. If there is no intermediate connector, skip this step.

4.6.3 Checks after connecting

- 1 Check that the system switches on and off with the ignition.
- 2 Check that the steering wheel controls and the lighting work properly.
- 3 Check that Bluetooth and Wi-Fi connect.
- 4 Before final mounting, check that all cables lie freely and cannot become trapped behind the dashboard.
- 5 Connect a fan if your system has one: [4.8 Connecting and setting up the fan](#) (p. 32).

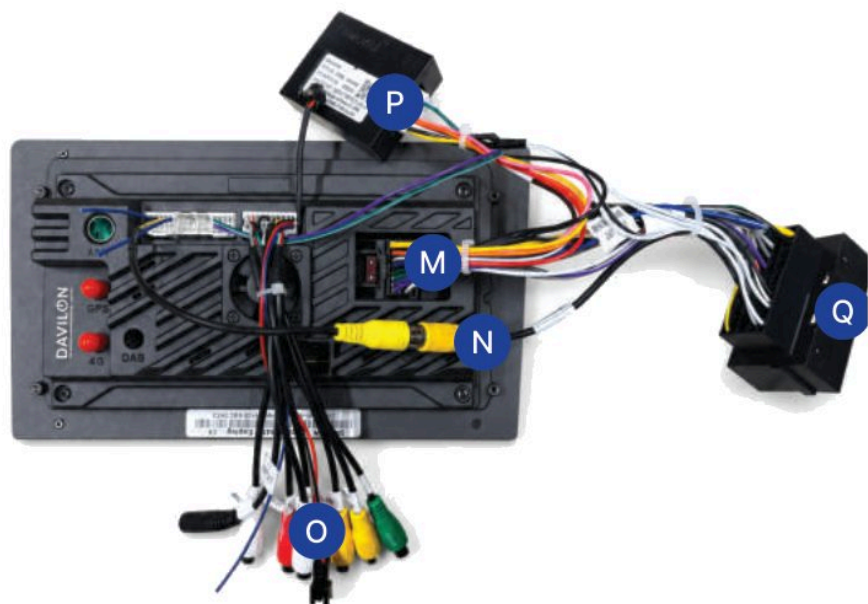
→ **See also:** Setting up the CAN-bus module: [5.4 Setting up the CAN bus in the system](#) (p. 51). Steering wheel controls not working properly after installation: [5.1 Steering wheel controls](#) (p. 43).

4.6.4 Version with original camera or factory amplifier

If your vehicle has original (OEM) functions, such as a factory-fitted reversing camera, a factory amplifier or additional audio/video interfaces, you will receive an extended type C cable. In this manual, OEM (Original Equipment Manufacturer) means: fitted as original equipment in the vehicle by the car manufacturer. The cable is essentially a type C cable, with additional connections to retain the original vehicle functions. The exact version and the connections present vary by vehicle.

Identification:

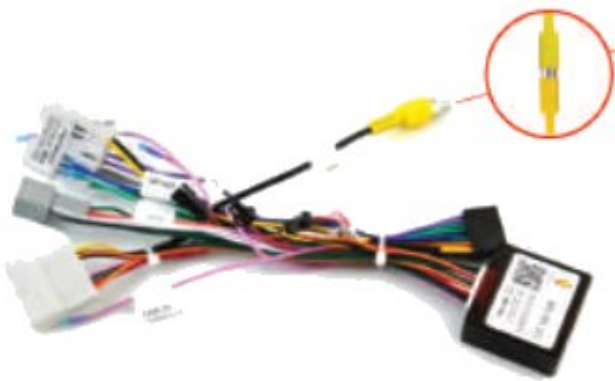
- Several make-specific connectors with labels such as CAM IN, AMP CTRL or AUX IN.
- A yellow RCA connector for the video signal, integrated into the wiring harness.
- A thicker cable bundle than the standard type B or type C cable, because of the additional signal lines.



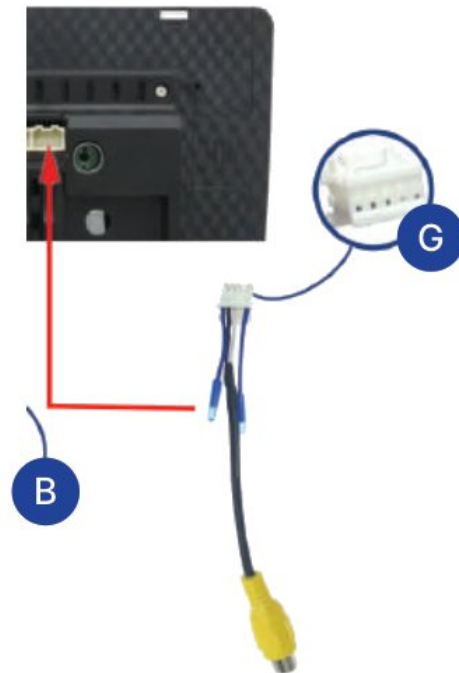
Wiring diagram of the extended type C cable (M to Q).

Letter	Part	Function
M	Main connector	Power supply; goes to the power socket on the back of the system
N	OEM camera input (yellow RCA)	Video signal from the original reversing camera. The yellow RCA connector is part of this wiring harness. Depending on the vehicle configuration, a supplied camera interface or adapter is required.
O	Amplifier / AUX connections	For a factory amplifier or external audio input
P	CAN or interface module	Communication with original functions, such as steering wheel controls and camera activation
Q	Vehicle-side connectors	Make-specific connectors for the vehicle's original wiring

- 1 Connect the yellow RCA connector for the original camera (N). Always do this before the power supply; this prevents faults with automatic camera activation.
- 2 Connect the main connector (M) to the power socket on the back of the system.
- 3 Connect the amplifier / AUX connectors (O) if the vehicle has a factory amplifier or external audio input.
- 4 Connect the CAN or interface module (P) according to the diagram.
- 5 Connect the make-specific connectors (Q) to the vehicle's original wiring.



Yellow RCA connector for the original camera in the wiring harness.



G: multifunction signal cable with yellow RCA connector.

Caution: Only use the yellow RCA connection for video signals. Mixing it up with the AUX or microphone connections can damage the video system.

→ **See also:** Connections of the video cable set: [4.10 Video cable and RCA connections](#) (p. 34).
Aftermarket camera: [4.15 Connecting a reversing camera \(optional\)](#) (p. 40).

4.6.5 RCA connections for an amplified audio system

On some vehicles, usually from model year 2012–2013 onwards, one or more RCA cables are included with the power cable set. You use these to connect the system directly to an existing factory audio system or an external amplifier. You connect the RCA connectors of the power cable set to those of the system's video cable set. This ensures that the original audio inputs and outputs are passed on correctly and that the corresponding audio functions are retained.

Caution: These connections are not required for standard installations. They only apply if your vehicle has a factory amplifier or if these cables are specifically included in your set. Check in advance whether this applies to your vehicle.

→ **See also:** Connection overview (A → H, B → G, C → F, D → E) with figure: [4.12 RCA connections for an amplified audio system \(optional\)](#) (p. 36). Which ports of the video cable set are intended for the RCA connections: [4.10 Video cable and RCA connections](#) (p. 34).

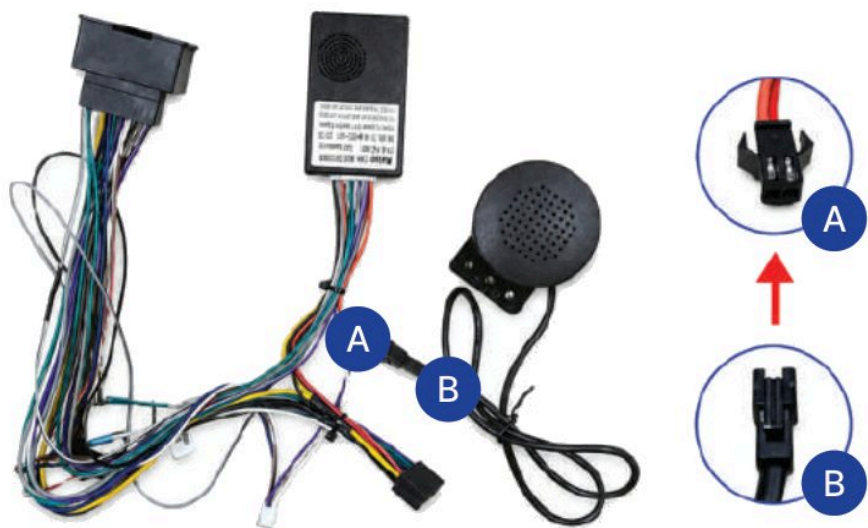
4.7 Connecting the external speaker

In some vehicles, warning and operating sounds are normally played through the original car speakers. After the original radio has been replaced by the Davilon system, these sounds are no longer audible through the car speakers in some vehicles. Examples include:

- the sound of the indicators;
- the seat belt warning;
- the warning sounds of the parking sensors;
- other audio signals that previously ran via the original radio and car speakers.

For this reason, some systems are supplied with an external speaker. This speaker ensures that these audio signals remain audible after installation.

 **Caution:** The external speaker is not included with every Davilon system. If your set does not include an external speaker, this connection does not apply to you and you can skip this section.



A = connection on the wiring harness of the system, B = connection of the external speaker.

Letter	Part
A	Connection on the wiring harness of the Davilon system
B	Connection of the external speaker

- 1 Connect the plug of the external speaker (B) to the connection on the wiring harness (A). Check that both connections are properly and securely attached before you switch the system on.
- 2 Switch the ignition on.
- 3 Test the vehicle sounds present on your vehicle, such as the indicators, seat belt warning and parking sensors.

If you still cannot hear the sounds, check that the external speaker is connected correctly and that all connections are secure.

- **Important:** The external speaker is only for vehicle audio signals that are no longer played through the original car speakers after installation. The speaker is not intended for the system's normal audio playback.

4.8 Connecting and setting up the fan

Some systems have a fan on the back. It provides additional cooling for the internal electronics and is controlled automatically when necessary, for example during prolonged use of navigation, high screen brightness or several apps at the same time.



The fan on the back of the system is connected via the short RCA adapter cable.

- 1 Connect the fan to the plug of the supplied short RCA adapter cable.
- 2 Connect the RCA adapter cable to the corresponding port on the back of the system ([4.10 Video cable and RCA connections](#) (p. 34)).
- 3 In the system settings, open the **Fan Control** menu.
- 4 Select an operating mode (see table).



Fan Control settings screen with the four modes; the thermometer icon shows the current CPU temperature.

Mode	Operation	Recommendation
Always on	The fan runs continuously for maximum cooling.	Only in very hot weather (>30 °C) or during prolonged intensive use
Start according to CPU temperature	The fan switches on automatically when the internal temperature exceeds a safe value.	Recommended for everyday use; set 55 °C as the switch-on threshold
Start according to volume	The fan switches on based on the sound level or the load on the amplifier.	–
Always off	The fan stays off.	Only if the fan noise is disturbing; not during intensive use

The thermometer icon on the screen shows the current CPU temperature. In an automatic mode, the fan only runs when additional cooling is really needed.

i Tip: Preferably select **Start according to CPU temperature** with 55 °C as the switch-on threshold. This prevents the fan from running unnecessarily.

! Caution: The fan prevents overheating and extends the service life of the system. Do not leave it permanently switched off, especially in hot weather or during prolonged use.

→ **See also:** Next step, steering wheel controls: [5.1 Steering wheel controls](#) (p. 43).

4.9 Cables and accessories

The Davilon system is a modular and complete platform. Depending on the vehicle type and version, you can extend it with various cables, modules and accessories. These parts connect the system to original vehicle functions, such as steering wheel controls, cameras, amplifiers and lighting.

This section gives an overview of the cables and accessories: which are required, which are optional and how they work together. For each part, you can then read its function, how to connect it and when to use it.

The exact set differs by model and vehicle type. Some cables are explained in detail elsewhere in this manual. Other accessories are Plug & Play: you connect them directly.



From left to right: power cable and CAN-bus module, RCA cable (video cable set), signal cable for the reversing camera, microphone, GPS antenna, USB cables, antenna adapter.

Cable / accessory	Function	See
Power cable	Powers the system. The connector type differs by vehicle type.	4.3 Choosing the correct power cable (p. 18)

Cable / accessory	Function	See
CAN-bus module (if present)	Handles communication between the vehicle and the system (the on-board computer), including for steering wheel controls, lighting and camera activation.	5.4 Setting up the CAN bus in the system (p. 51)
RCA cables (video cable set)	For external audio and video sources and subwoofers.	4.10 Video cable and RCA connections (p. 34)
Multifunction signal cable	Combination cable for camera input, Bluetooth and Wi-Fi. Required for correct operation of the wireless functions.	4.11 Multifunction signal cable (Wi-Fi, Bluetooth, camera) (p. 36)
SIM card / data module (optional)	For a mobile internet connection via a 4G SIM card.	4.13 SIM card and data module (optional) (p. 37)
Antenna adapter (if applicable)	For FM/AM radio reception. Supplied for vehicles with a vehicle-specific antenna connection.	–
USB cables (usually 2×)	For USB storage or a smartphone for Apple CarPlay or Android Auto.	7.3 Apple CarPlay (p. 75)
GPS antenna	Receives satellite signals for navigation. Place the antenna with a clear view outside, preferably near the windscreen.	–
External microphone	For hands-free calling and voice control. Recommended instead of the built-in microphone.	7.1 Bluetooth (p. 69)

The cables in the table may differ by system type and vehicle. The main connections (power supply, CAN bus, multifunction signal cable and RCA) are explained in detail elsewhere in this manual. The antenna adapter, USB cables, GPS antenna and microphone are Plug & Play: simply connect them, no setup is required.

If your system has additional accessories or cables that are not listed here, check the product specification or the packaging to see which extensions are suitable for your model.

Caution: Connect all cables correctly. Otherwise functions such as sound, camera, Bluetooth, Wi-Fi and amplifiers will not work reliably.

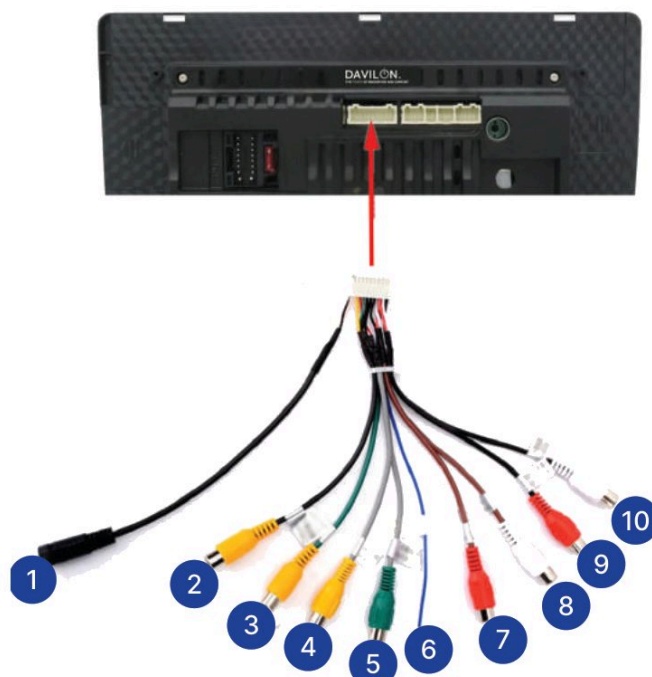
Caution: The colour and design of the supplied cables may differ by model. This does not affect operation.

4.10 Video cable and RCA connections

The video cable set has various connections for external audio and video sources. Use them to extend the system with, for example, a media player, amplifier or external screen.

The figure below shows the video cable set with the numbers 1 to 10. The table below it explains the connection and its use for each number.

Only use these connections if you want to connect additional equipment. They are not required for the basic operation of the system.



Video cable set with connections 1 to 10; the numbers correspond to the table below.

No.	Connection	Function
1	MIC input	External microphone. Recommended for vehicles with a lot of road noise.
2	Camera video in	Not intended for external video sources. Do not use for an aftermarket camera: use the yellow RCA connector of the signal cable. See 4.15 Connecting a reversing camera (optional) (p. 40).
3	Video out 1	Sends the system's image to an external screen, for example for rear passengers.
4	Video in	External video source, such as a media player or TV receiver.
5	Subwoofer out	Audio output for a subwoofer or bass amplifier.
6	AMP/REM	Control signal that switches on an external amplifier or active antenna as soon as the radio switches on.
7	Rear audio out (right)	Rear right audio output, to an external amplifier or speaker.
8	Rear audio out (left)	Rear left audio output, to an external amplifier or speaker.
9	Front audio out (right)	Front right audio output, to an amplifier or speaker.
10	Front audio out (left)	Front left audio output, to an amplifier or speaker.

4.11

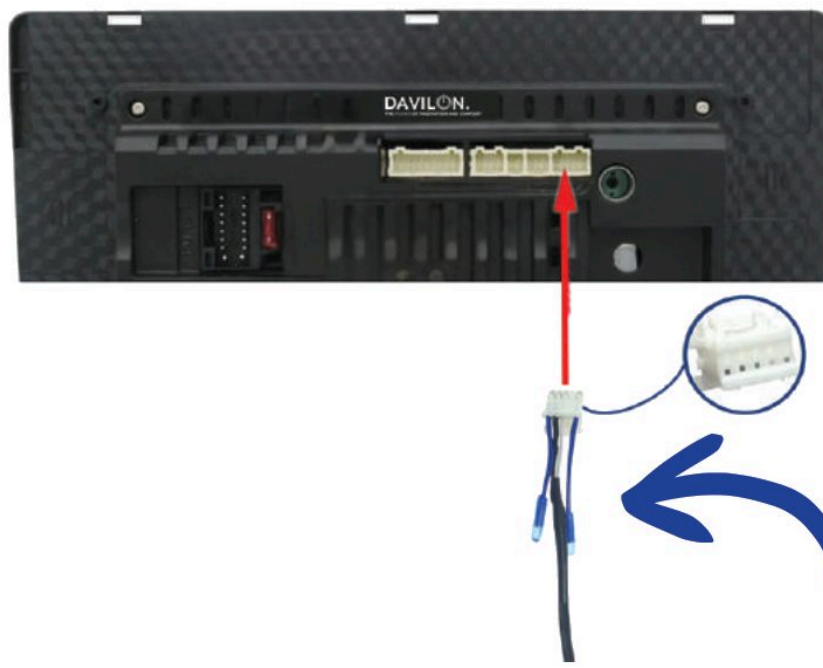
Multifunction signal cable (Wi-Fi, Bluetooth, camera)

A multifunction signal cable is supplied with the system. You can recognise the cable by its yellow RCA connector. The cable is essential for the operation of the wireless functions and has three functions:

- **Camera video in** (yellow RCA connector): for an optional reversing camera. An adapter cable may be required for vehicles with an original reversing camera.
- **Bluetooth**: ensures a stable connection with mobile devices.
- **Wi-Fi**: ensures a reliable connection with wireless networks and mobile hotspots.



Signal cable; the yellow RCA connector is for the reversing camera.



Socket on the back of the system

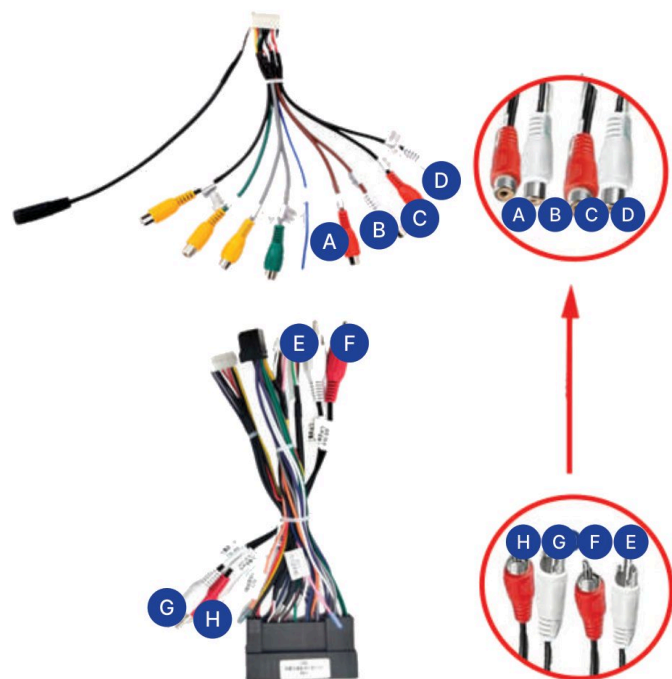
! Caution: Always connect this cable, even if you do not use a reversing camera. Without this cable, Bluetooth and Wi-Fi work only partially or not at all.

→ **See also:** 4.15 Connecting a reversing camera (optional) (p. 40)

4.12

RCA connections for an amplified audio system (optional)

For some vehicles from around 2012 onwards, additional RCA connection cables are included with the power cable set. Use these to link the system directly to an original amplified audio system or an external amplifier.



RCA connectors A–D on the video cable set and E–H on the power cable set

The table shows which RCA connectors you connect to each other and what function each connection has:

From → to	Label	Function
A → H	FL OUT	Front left audio output (Front Left Audio Out)
B → G	FR OUT	Front right audio output (Front Right Audio Out)
C → F	AUX R IN	Right audio input (Aux Right Audio In)
D → E	AUX L IN	Left audio input (Aux Left Audio In)

Caution: These connections are optional and only intended for vehicles with an amplified audio system. They are not required for standard installations.

→ **See also:** more about the video cable set and the connection ports: [4.10 Video cable and RCA connections](#) (p. 34)

4.13 SIM card and data module (optional)

Some systems have a SIM card connector into which you insert a data SIM card. The system then connects to mobile internet by itself, without a Wi-Fi network or mobile hotspot. This means you can use apps, navigation and updates, among other things, when no external Wi-Fi connection is available.



Video cable set with SIM card connector (black block, left)

Caution: The 4G module or SIM card connector is not included as standard with every model. Check the product specifications to see whether your system has this part before you buy or insert a SIM card.

→ See also: more about using mobile data connections: [7.6 Connecting to Wi-Fi](#) (p. 81)

4.14 Power cable wiring diagram

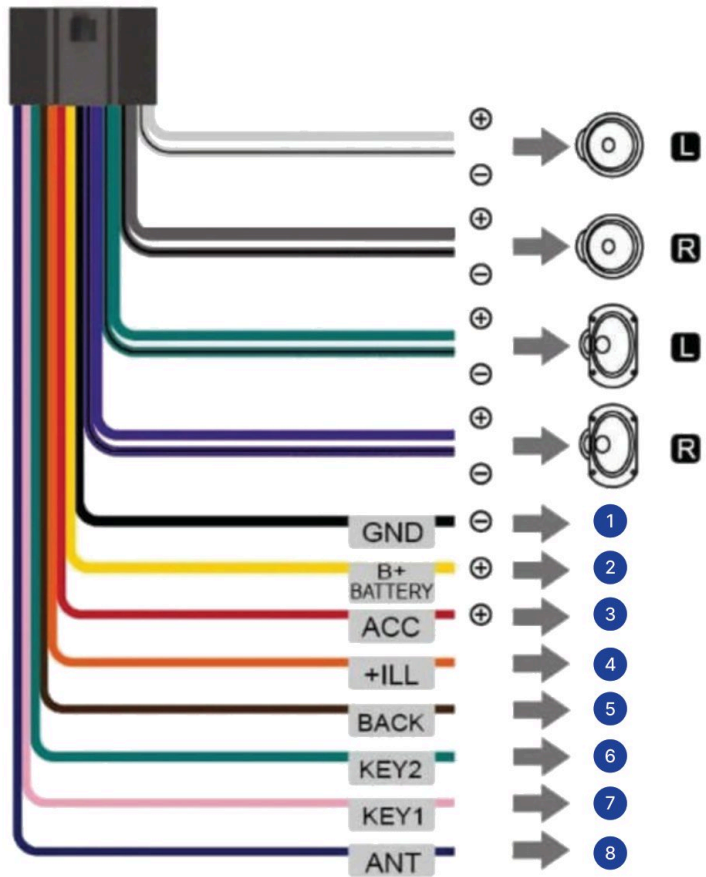
The power cable is the heart of the system's electrical connection. Each wire has its own function: power supply, switching on via the ignition switch, illumination or signal transmission. The exact wiring may differ by vehicle type or cable variant (type A, B or C).

Label	Function
ACC (Accessory)	Switched power supply. Carries voltage as soon as the ignition is on, so that the system switches on and off automatically with the ignition.
BATT (+12V Constant), B+	Permanent power supply directly from the battery. Retains settings and the clock when the ignition is off.
GND (Ground)	Ground (earth) of the system. Connect securely to the vehicle chassis.
ANT / REM	Control signal (+12 V) that switches on an external antenna or amplifier as soon as the radio switches on.
ILLUMI (Illumination)	Button illumination. Connect to a switched power supply, such as ACC, so that the illumination switches on and off with the ignition.
FL+ / FL-	Front left speaker (+ and -)
FR+ / FR-	Front right speaker (+ and -)
RL+ / RL-	Rear left speaker (+ and -)
RR+ / RR-	Rear right speaker (+ and -)
REVERSE	Signal wire that activates the camera image as soon as reverse gear is engaged.

Label	Function
BRAKE	Safety circuit that blocks video playback while driving. In some vehicles optionally connected to the handbrake switch, to check whether the vehicle is stationary.
AMP CTRL	Alternative control signal for an external amplifier or subwoofer.
KEY1 / KEY2	Input for steering wheel controls on systems without CAN bus (type A).
BACK	Power supply for the reversing camera (if present).

 **Caution:** Wire colours may differ between cable sets. Always connect a wire according to the label on the wire (for example REVERSE, BRAKE, BACK, KEY1 or KEY2). If there is no label, test the wire with a meter first or contact your dealer.

The diagram below shows the power connector with all its wires. At the top are the speaker outputs: the front speakers (left and right) and the rear speakers (left and right), each with a plus (+) and a minus (–) connection. Below them are the other wires with their label and a number from 1 to 8. The table directly below the diagram explains the numbers.



Power cable wiring diagram: speakers at the top (front and rear speakers, L and R), wires 1 to 8 at the bottom.

 **Caution:** Wire colours differ between cables. The label on the wire always takes precedence.

No.	Label in diagram	Function
1	GND	Ground / earth (GND)

No.	Label in diagram	Function
2	B+ BATTERY	Constant power supply +12 V (B+)
3	ACC	Switched power supply (ACC)
4	+ILL	Button illumination control
5	BACK	Reversing camera power supply
6	KEY2	Steering wheel controls 2 (SWC2)
7	KEY1	Steering wheel controls 1 (SWC1)
8	ANT	Automatic antenna power supply

The B+ (BATT) wire provides a permanent power supply. This means the system retains its saved settings when the ignition is off.

4.14.1 Points to note

- Always check that the ACC and BATT wires are connected correctly.
- If the system does not retain its settings after the ignition is switched off, use a multimeter to measure which wire on the vehicle side supplies a permanent +12 V. Only swap the ACC and BATT wires if the measurement confirms this.
- Only connect the ILLUMI wire if your vehicle does not control the illumination automatically via a switched signal.
- Always insulate unused wires, such as REVERSE and AMP CTRL, properly. This prevents faults.
- With a CAN-bus module (type C), the CAN bus controls most functions automatically. You then do not need to connect these wires manually.

Caution: Swapping the ACC and BATT wires only applies to universal power cables without CAN bus. In vehicles with a CAN bus, the CAN-bus module controls these signals automatically.

→ **See also:** the connection procedure for the power cable in [4.3 Choosing the correct power cable](#) (p. 18) and, for a vehicle with a CAN-bus module, [5.4 Setting up the CAN bus in the system](#) (p. 51)

4.15 Connecting a reversing camera (optional)

The Davilon 4 series supports a wired aftermarket reversing camera. A camera is not supplied with the system as standard.

These instructions are based on the installation of Davilon cameras and other standard aftermarket cameras. If your camera is from another make and differs from this description, follow the installation instructions in the supplier's manual.

Tip: Davilon recommends wired cameras. Wireless cameras are not supported: in practice, their reliability and image quality are often insufficient.

Caution: The exact connection depends on the make and type of camera. Therefore, always consult the camera's manual for the correct connection sequence and wire designations. Below are only general guidelines that apply to most standard aftermarket cameras.

You connect the camera via the yellow RCA connector of the multifunction signal cable (see [4.11 Multifunction signal cable \(Wi-Fi, Bluetooth, camera\)](#) (p. 36)). The system automatically switches to the camera image as soon as you engage reverse gear.

- 1 Connect the camera's video cable to the yellow RCA connector (camera video in) of the multifunction signal cable.
- 2 Connect the wire labelled REVERSE to the +12 V connection of the reversing light. This allows the system to detect that reverse gear is engaged. With a CAN-bus module, skip this step: the system then receives the reverse signal automatically via the CAN bus.
- 3 Connect the camera's power supply. Connect the positive (+12 V) to the wire labelled BACK or to the +12 V connection of the reversing light; both are possible. Connect the negative to ground.
- 4 Test the operation: engage reverse gear. The camera image should appear immediately.

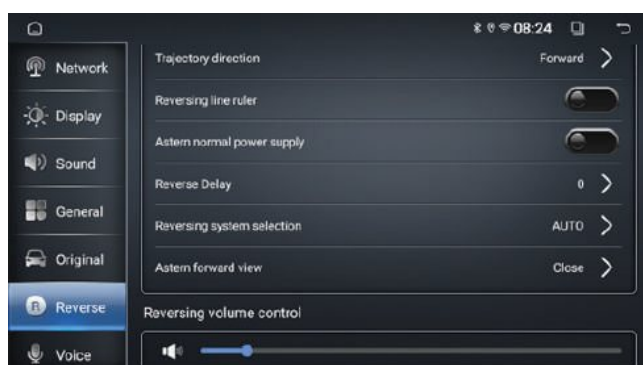
Tip: Preferably use shielded RCA cables and avoid cheap extension cables. This reduces the risk of interference and noise in the camera image.

→ **See also:** for a vehicle with an original reversing camera or factory amplifier, and the correct cable configuration for it: [4.6 Type C – cable with CAN-bus module](#) (p. 25)

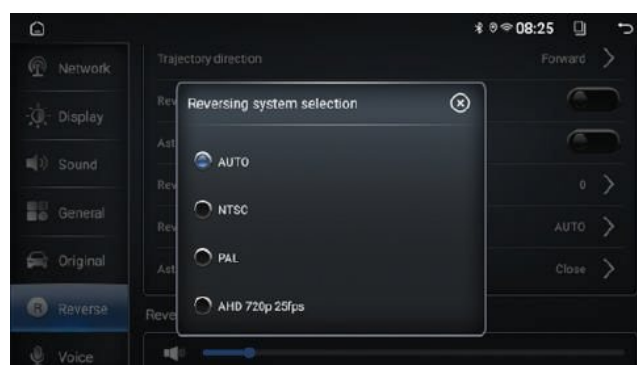
4.16 Setting up the reversing camera

You adjust the camera settings in the system's settings menu. This is particularly useful if the camera image is mirrored, blurred or distorted.

- 1 Open the settings menu: tap **Settings**.
- 2 Tap **Reverse** (see the figure below).
- 3 Tap **Reversing system selection** to select the video format.
- 4 Adjust the other settings as required: mirror image, guide lines and the delay before the image appears when shifting (see the table).



Reverse menu



Selecting the video format

Setting	Function	Options
Reversing system selection	Video format (video system) of the camera	AUTO, NTSC, PAL , AHD (e.g. AHD 720p 25fps , AHD 1080P / 25fps), TVI 1080P / 25fps
Mirror image	Mirror the image	ON / OFF
Reversing line ruler	Show or hide guide lines	On / off
Reverse Delay	Delay before the camera image appears when shifting	Number

i **Tip:** Check the camera's manual to see which video system is suitable. A camera marked CVBS corresponds to NTSC. Other common formats are AHD and PAL.

4.16.1 Quick checks if problems occur

- **No camera image?** Check that the REVERSE wire receives voltage when reverse gear is engaged.
- **Image distorted or black and white?** Under **Reversing system selection**, switch between **PAL** and **NTSC**.
- **Poor image quality?** Only use shielded RCA cables and no low-quality extension cables.

→ **See also:** 9.3 Image and screen (p. 96)

Chapter 5

CAN bus and steering wheel controls

Set up the steering wheel controls, identify your CAN-bus module and select the correct CAN-bus profile. In most cases this is already set correctly at the factory.

5.1 Steering wheel controls

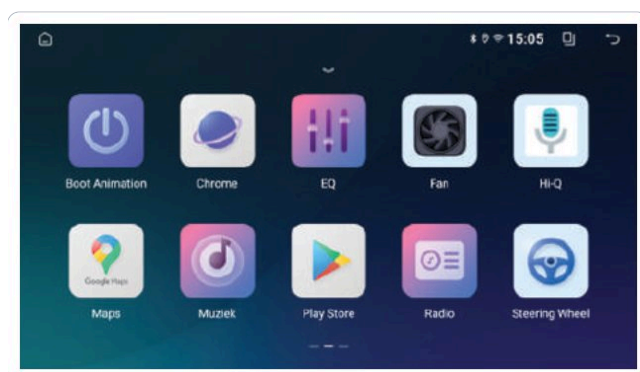
If the Davilon system has been designed specifically for your vehicle type, it is supplied with a CAN-bus module (also called a CAN-bus decoder). This module communicates automatically with the car's on-board computer. As a result, the system takes over functions such as the steering wheel controls automatically in many cases.

If the buttons on the steering wheel work correctly straight away, you do not need to set anything up and can skip this section. If the steering wheel controls do not work properly, or if you want to give the buttons a different function, assign the buttons manually.

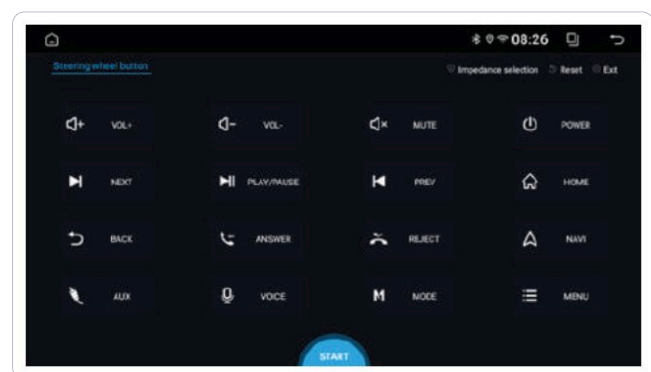
5.1.1 Assigning steering wheel buttons manually

- 1 Open the **Steering Wheel** app in the app menu (see the figure below).
- 2 Tap **START** to start the setup process.
- 3 On the touchscreen, tap the function you want to assign, for example **VOL+**, **VOL-**, **NEXT** or **PREV**.
- 4 Press and briefly hold the button on the steering wheel that should get this function. The selected function is now assigned to that steering wheel button.
- 5 Repeat steps 3 and 4 for each button you want to set up.

After setup, the steering wheel controls work according to your own layout.



The app menu: the **Steering Wheel** app is at the bottom right.



The **Steering Wheel** app: select a function, then press the steering wheel button.

i **Tip:** Give frequently used buttons logical functions, such as volume up/down or next track. This makes operation easier and safer while driving.

→ **See also:** if the steering wheel buttons do not respond at all after installation, check the CAN-bus module and the CAN-bus setting: [5.4 Setting up the CAN bus in the system](#) (p. 51)

5.2 What does the CAN-bus module do?

The CAN-bus module is the communication link between the system and the car's on-board computer. Via this digital connection, the system recognises vehicle signals, which the module passes on automatically, such as:

- steering wheel controls;
- ignition status (ignition on/off);
- lighting;
- parking sensors;
- reversing camera.

Correct configuration is essential for reliable and stable operation of these functions. A CAN-bus module is supplied if the system has been made specifically for your vehicle type. In most cases (approx. 95%), the module is already set correctly at the factory.

5.2.1 When do you need to set up the CAN bus?

Teaching the CAN bus manually or changing the setting is only necessary if:

- the steering wheel controls or other vehicle functions do not work correctly;
- Davilon customer service explicitly advises you to do so;
- the CAN-bus settings have been reset or changed after a software or system update.

Davilon systems come in many vehicle-specific versions and configurations. It may therefore be necessary to adjust the setting manually, even if the CAN bus has been preset correctly. This ensures that the setting fully matches your vehicle model.

! **Caution:** Only carry out this procedure if it is really necessary. This prevents incorrect settings or loss of functions.

Before you can set up the CAN bus, the system must be connected to the internet. The system then automatically loads the latest vehicle profiles and CAN data. See [5.4.1 Preparation](#) (p. 51).

i **Tip:** The CAN-bus setting determines which vehicle-specific functions the system recognises. Therefore, always select the correct module and the correct profile for your vehicle.

5.3 Identifying the CAN-bus module

To choose the correct setting, you need to know which CAN-bus module belongs to your system. The figures below show some examples of CAN-bus modules with their connectors. They help you identify the modules. The exact shape and colour may differ by manufacturer.



Power cable with CAN-bus module (black box)



Cable set with a smaller CAN-bus module

5.3.1 Physical characteristics

The module is usually a compact box between the power cable and the radio. The design may differ slightly by vehicle type or manufacturer. Characteristics:

- plastic housing: black, grey or sometimes red/brownish;
- label with "CANBUS", a serial number or the manufacturer's name;
- usually one connection: a white female connector for the male connector of the power cable;
- size approx. 5 × 3 cm.

In some cases the CAN-bus module is built into the radio panel itself, for example as part of the air conditioning panel or dashboard frame. In that case you will not see a separate box, but the CAN bus works in the same way.

5.3.2 Supported CAN-bus brands

The Davilon 4 series is compatible with CAN-bus modules from, among others:

- Ximpu;
- Oudi;
- Hiworld;
- Raize / Raise;
- LHL;
- Simple Soft.



Caution: Always use the CAN-bus module supplied or recommended by Davilon. An unsupported module can cause loss of functions or communication problems.

5.3.3 What is on the label?

Each manufacturer supplies modules with its own software configuration, connector shape and label. Check the label carefully: this lets you easily determine whether the correct module is fitted in your car and which vehicle type it is suitable for. The sticker or print usually shows:

- **manufacturer**, for example Hiworld, Ximpu, Oudi, Raise, LHL or Simple Soft;
- **vehicle make or series**: the car make or type for which the module is intended;
- **model code or software version**: the manufacturer's internal code, useful for updates or replacement;
- **date or batch number**: production reference, usually not relevant to you.

The manufacturer and vehicle group determine which signals the module recognises. With the wrong module, functions such as steering wheel controls or lighting may be missing.

Below are examples for each manufacturer, with an explanation of the label. For most brands, you will also see an example of the **Car Choose** selection screen in the CAN-bus settings menu, with this module selected. How to use that menu step by step is described in [5.4 Setting up the CAN bus in the system](#) (p. 51).

5.3.4 Hiworld

You can recognise the Hiworld module by its black plastic housing with a white label clearly showing the brand name Hiworld. This module is intended for Audi, in particular the A3, A4 and TT, within the years of manufacture on the label.



Hiworld module for Audi A3, A4 and TT

Code on label	Meaning
AU	Audi (make code)
10.20 (GB)	Software version of the module
H1W0AU100A	Product code
Fit for: 03-13A3/04-08A4/06-14TT	Exactly which models and years of manufacture are supported: A3 (03–13), A4 (04–08), TT (06–14)

This is a good example of a clearly labelled module: the make and supported models are clearly shown on the label.

**Caution:** Not every CAN-bus module is labelled this completely. Sometimes the label only shows the make, an abbreviation such as "VW" or "PSA", or only the vehicle series without years of manufacture.

Hiworld also makes CAN-bus modules for other makes and platforms, such as Volkswagen, Skoda and Peugeot. The vehicle group for which the module is suitable is always shown on the label.

5.3.5 Oudi

The label of an Oudi module shows the text CAN BUS DECODER and a code starting with "OD-". In this example, the module is intended for Mercedes-Benz.

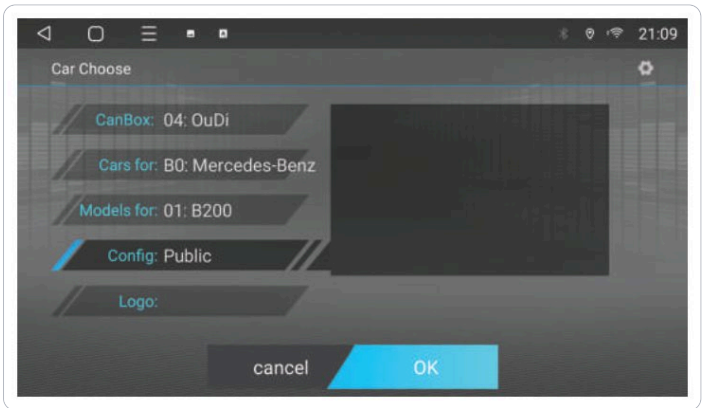


Oudi module for Mercedes-Benz (OD-BZ-01)

Code on label	Meaning
OD	Oudi (manufacturer)
BZ	Mercedes-Benz (vehicle group)
01	Hardware or software version
For:	Supported models and vehicle codes
HW: AV1 / SW: V8	Hardware and software version of the module
240415	Production number of the module

Oudi also makes CAN-bus modules for other car makes, including Toyota, Subaru and Nissan. The label is then structured in the same way: an abbreviation for the car make, for example TY for Toyota and SU for Subaru, followed by a version number. Example: OD-TY-02.

i **Tip:** Always check the letter code after "OD-". It tells you which make the module is intended for.



Example in the CAN-bus settings menu: Oudi module in a Mercedes-Benz B200.

5.3.6 Simple Soft

You can recognise the Simple Soft module by its transparent, reddish-brown plastic housing with a white label showing the brand name Simple Soft. This type of module is mainly used in Asian cars, such as Nissan, Suzuki, Mazda and Honda.



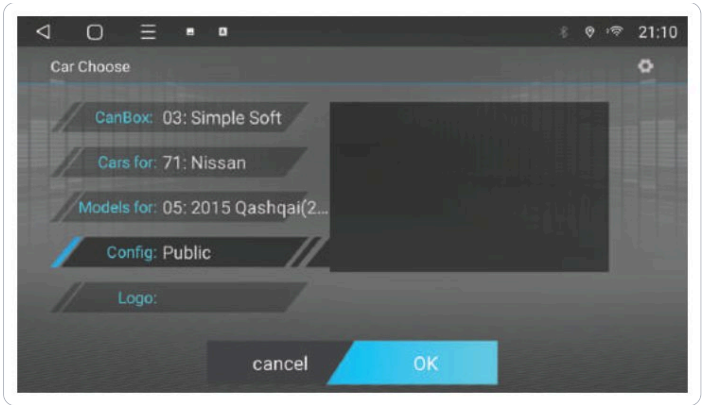
Simple Soft module for Nissan (NS-SS-04A)

Code on label	Meaning
NS	Nissan (vehicle group)
SS	Simple Soft (manufacturer)
04A	Model or software version of the module
SW: V1.02.006BYPM	Software version
DC: 20220422	Production number
P/N: K0090	Product number

Simple Soft usually puts a two- or three-letter code at the start of the label. This code indicates which vehicle group the module is suitable for. In this example, "NS" stands for Nissan. Other variants include "TY" for Toyota, "HY" for Hyundai and "MZ" for Mazda.

On the underside there is a white 20-pin connector. This usually plugs directly into the power cable or the CAN extension. In some cars with more extensive electronics, for example with an original amplifier or parking sensors, the module has two connectors: one on each side. This allows the module to communicate with several vehicle systems at the same time.

The size of Simple Soft modules may differ by vehicle and cable set. The operation and the way they are connected remain the same.



Example in the CAN-bus settings menu: Simple Soft module in a Nissan Qashqai (2015).

5.3.7 Raise (Raize)

You can recognise the Raise module (sometimes called Raize) by its black plastic housing with a white label; the brand name Raise is at the top. This example is for cars of the Volkswagen Group (VAG): Volkswagen, Skoda and Seat.

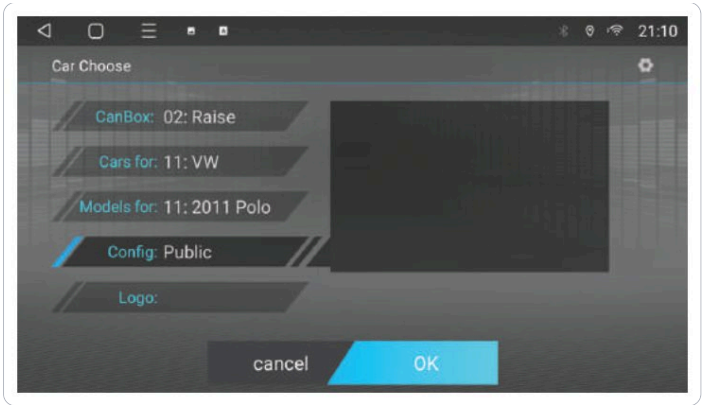


Raise module for Volkswagen, Skoda and Seat

Code on label	Meaning
P/N: G-RZ-VW58	Product code of the module
RZ	Raise (manufacturer)
VW	Volkswagen platform (suitable for)
58	Version or internal software variant
SW: V003.92.12.04-HS	Serial number of the module
HW: VW-GN-0108	Hardware version
FOR:	Vehicle group for which the module is suitable (All VW, Skoda, Seat cars)

The print is clear and easy to read. The label always states which vehicle family the module is suitable for. The connector is usually on the side or underside of the module and is black as standard.

Raise also makes CAN-bus modules for other makes. The vehicle group is then shown as an abbreviation on the label, for example "FD" for Ford or "HY" for Hyundai. The layout of the label remains the same; only the vehicle code changes.



Example in the CAN-bus settings menu: Raise module in a Volkswagen Polo (2011).

5.3.8 Ximpu (Xin Pu)

You can recognise the Ximpu module (also Xin Pu) by its dark red plastic housing with a white label containing little information. Ximpu modules come from the same manufacturer as Simple Soft and are regarded as the predecessor of the current generation of CAN-bus modules. You may still find them in older cars or in cars with a high configuration. The example below is a module for Fiat / universal.



Ximpu module for Fiat

Code on label	Meaning
MH	Internal product code (factory code)
20210121	Production code
URXT	Platform code for Fiat vehicles
HW: V4 / SW: V3	Hardware and software version of the module

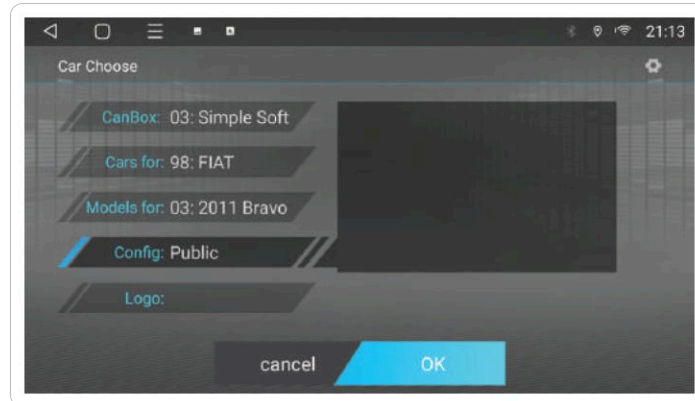
Unlike modern CAN-bus modules, a Ximpu label shows little information about the vehicle. The code "URXT" stands for Fiat here, but this is not immediately recognisable to users.

On the underside there is a 20-pin connector, similar to that of Simple Soft. Inside is an older circuit board that converts the CAN signals, without a clear make or vehicle designation on the label.

Because Ximpu is the predecessor of Simple Soft, the two modules are technically related. However, Simple Soft has a clearer label and broader compatibility. For this reason, Ximpu is used less often today.

- i** **Tip:** If there is an unknown code on a Ximpu module, check in the CAN-bus settings menu which vehicle profile the system recognises automatically. The system often detects by itself whether the module belongs to Fiat or a related platform.

For a Ximpu module, first select Ximpu from the list under **CanBox** in the CAN-bus settings menu. If that does not work, select Simple Soft.



Example in the CAN-bus settings menu: Fiat Bravo (2011); **CanBox** shows **03: Simple Soft** here.

5.4 Setting up the CAN bus in the system

In the CAN-bus settings menu, you select the module manufacturer and the car model. This sets up the communication between the system and the on-board computer correctly. This is only necessary if the steering wheel controls or other vehicle functions do not work properly, or if Davilon customer service advises it. In most cases, the CAN-bus module is already correctly preprogrammed (see [5.2.1 When do you need to set up the CAN bus?](#) (p. 44)).

5.4.1 Preparation

- 1 Wait until the system has fully started up.
- 2 Check that the CAN-bus module is properly connected to the power cable.
- 3 Connect the system to a Wi-Fi network. This is necessary to load the latest vehicle profiles and module data.

→ **See also:** [7.6 Connecting to Wi-Fi](#) (p. 81)

- i** **Tip:** Make sure you have a stable internet connection. Without an active connection, the system cannot download module profiles. You will then see the message **No Data** or **Connection Error**.

5.4.2 Selecting a profile

- 1 Open the main menu.
- 2 Tap **Settings**.
- 3 Tap **Factory Settings**.
- 4 Enter one of the factory codes: 8888, 3368, 0000, 1234 or 7890.

- 5 Tap **CAN-bus Settings**. The selection screen appears.
- 6 First select the manufacturer of your CAN-bus module under **CanBox**, for example Hiworld, Oudi, Simple Soft, Raise or Ximpu.
- 7 Select the car make under **Cars for**.
- 8 Select the model under **Models for**.
- 9 Tap **OK** (in some versions **Confirm** / **Install**).
- 10 Wait until the system has restarted and the message **Installed** appears. The installation has then been completed successfully.

Examples of the completed selection screen are shown for the brands Oudi, Simple Soft, Raise and Ximpu in [5.3 Identifying the CAN-bus module](#) (p. 44).

Caution: Do not switch off the system or disconnect the CAN-bus module during this procedure. An interrupted installation can result in faulty communication or an incomplete configuration of the vehicle functions.

5.4.3 Checking operation

After the **Installed** message, the system communicates automatically with the on-board computer. Check this straight away:

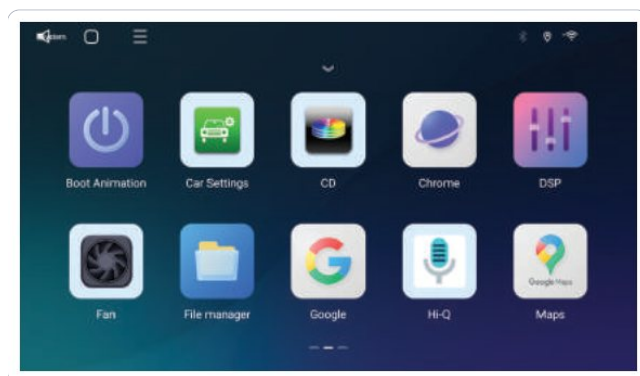
- use the steering wheel buttons;
- switch the lighting on and off;
- engage reverse gear and check the camera image.

5.5 Original car settings via the CAN bus

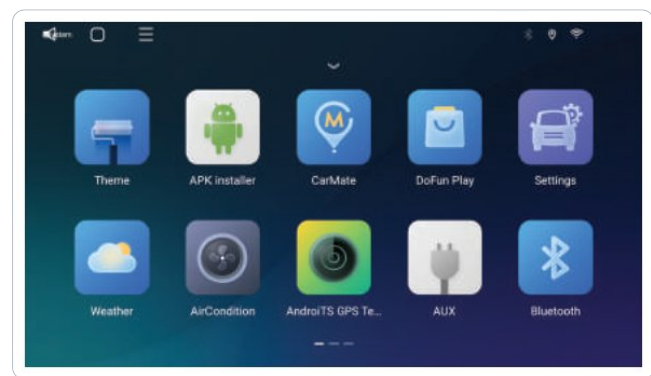
The system communicates with the car's electronics via the CAN-bus module. Depending on the vehicle type and configuration, this allows you to view and operate original vehicle functions on the touchscreen.

If the correct CAN-bus profile has been selected (see [5.4 Setting up the CAN bus in the system](#) (p. 51)), one or two additional apps may appear automatically in the app menu:

- **Car Settings:** vehicle settings and information;
- **AirCondition:** climate screen with temperature and ventilation control.



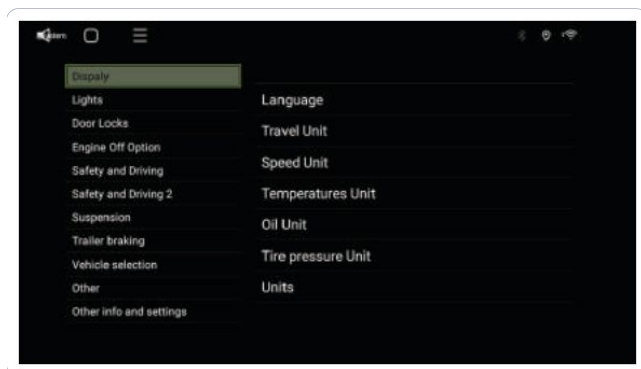
App menu with the additional **Car Settings** app



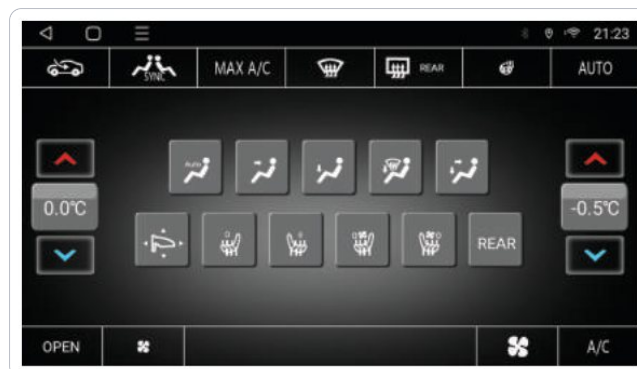
App menu with the additional **AirCondition** app

These apps give you access to vehicle settings and information that are normally only available on the car's original display. Depending on the car, you can, among other things:

- reset the tyre pressure monitoring (TPMS);
- set automatic door locking while driving;
- view trip and consumption data, such as average speed and fuel consumption;
- operate the air conditioning or climate control, with temperature and ventilation control;
- change the language or display of the digital instrument cluster.



The **Car Settings** app: categories on the left, settings on the right



The **AirCondition** app: temperature and ventilation

Caution: Not every car supports these functions. This depends on the type of CAN-bus module and the car model. They are often only available on High Configuration versions (with extensive on-board electronics). Which menus you see depends on the CAN profile.

Tip: No additional apps visible? Check that the correct CAN-bus profile is set (5.4 Setting up the CAN bus in the system (p. 51)). If in doubt, consult the vehicle list or contact Davilon customer service for advice.

5.5.1 Common problems

Problem	Probable cause	Solution
No steering wheel controls	Wrong CAN profile selected	Select the correct car make and model in CAN-bus Settings .
System stays on after ignition off	ACC signal not received	Check the CAN connection. If necessary, use the ACC wire as an alternative.
Lighting or dimming function does not work	CAN lighting not activated	Check the CAN-bus settings and the selected module type.
Reversing camera does not switch on	No reverse signal via CAN	Use the REVERSE wire as an alternative trigger.
No connection with the CAN bus	Module disconnected or faulty	Check plugs and connections. Replace the module if necessary.

→ See also: 9.7 Controls (p. 109) and 9.2 Power and start-up (p. 90)

5.5.2 Summary

- The CAN bus is the digital connection between the car and the system.
- In 95% of cases, the CAN bus is set correctly at the factory.
- Only change the settings if there are faults or if Davilon advises it.
- Always check the internet connection before you select a CAN profile.
- Only use original Davilon CAN-bus modules for reliable operation.

i Tip: Take a photo of the connected CAN-bus module and connectors before you refit the dashboard. This makes later servicing and troubleshooting easier.

Chapter 6

Settings

Set up the Davilon system to suit your preferences: language, time, display, sound and controls. This chapter also explains how to calibrate the touchscreen, view device information and storage, restore the factory settings and install updates.

Configure the basic settings immediately after the initial installation. This ensures that the system works correctly and is tailored to your personal preferences. The basic settings are:

- **Language:** the display language for menus and system messages.
- **Date and time:** the correct time zone, date and clock, so that navigation and time functions work correctly.
- **Home screen:** the layout of the home screen, so that frequently used apps are quick to reach.
- **Brightness:** the screen backlight, adjusted to the light conditions in the car.
- **Wallpaper:** a background image to personalise the screen or improve readability.



The Davilon system after start-up.

i Tip: Always check these basic settings after a system update and after restoring the factory settings. This keeps all functions working correctly.

Most settings are in the **Settings** app (gear icon; on some software versions **Auto Set**). Open this app from the Apps overview or with the gear button at the bottom of the home screen. The main groups are listed on the left of the menu, such as **Display**, **General**, **System**, **More** and **About**. Use **More** to access the Android settings.

Setting	Menu path
Language	Settings > More > System > Languages & input
Date and time	Settings > More > System > Date & time
Home screen	Press and hold an app on the home screen
Brightness and wallpaper	Settings > Display
Equaliser and sound balance	DSP Setting app
Split screen	Multitasking button (top right)
Float Bar	Notification bar, or Settings > General > Floating button

Setting	Menu path
Theme	Theme app
Files	File Manager app
Calibrate touchscreen and on-screen buttons	Press and hold an empty home screen page with five fingers
Device information	Settings > About
Storage usage	Settings > More > Storage
Factory settings	Settings > System > Reset factory
Updates	Settings > System > MCU upgrade / System upgrade

6.1 Setting the language

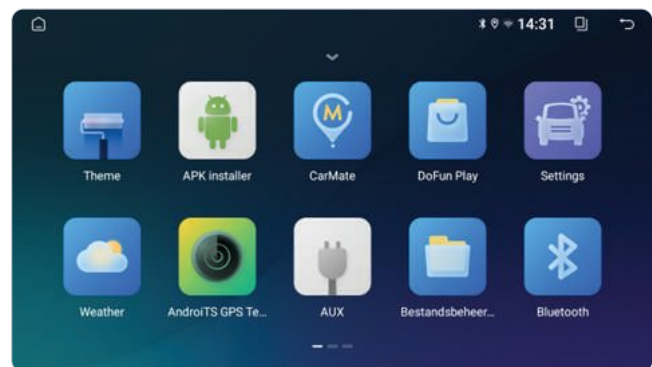
The system supports several languages. The language setting determines the language in which menus, settings and system messages are displayed. Choose a language you understand well: this makes the system easier to operate and error messages and functions easier to read. Dutch, English, German and French are available as standard.

Some third-party apps are not fully translated. In that case, the system automatically switches to another available language.

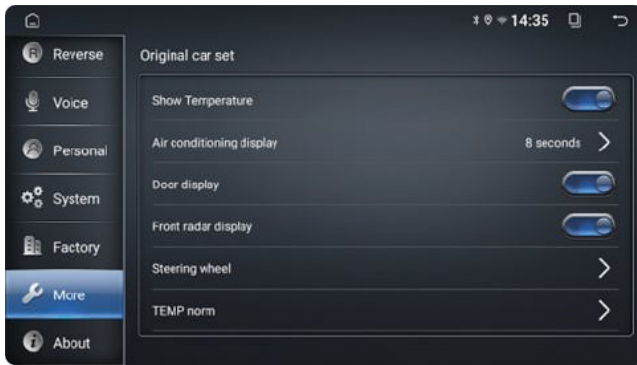
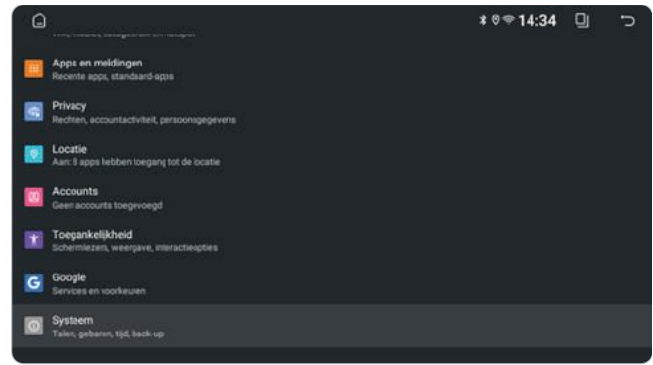
- 1 On the home screen, go to the main menu or open the Apps overview.
- 2 Open the **Settings** app (gear icon).
- 3 Tap **More**.
- 4 Tap **System > Languages & input**.
- 5 Select the language you want from the list.
- 6 Drag the selected language to the top of the list.



Home screen with the **Apps** icon at the top right



Apps overview with the **Settings** app at the top right

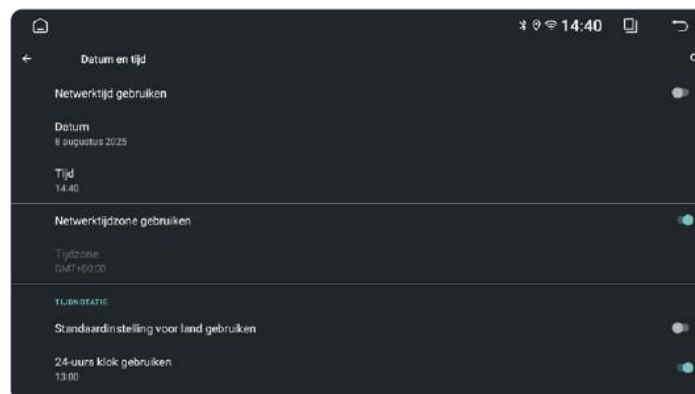
More in the **Settings** appAndroid settings: **System**

i **Tip:** If an app is not available in the language you choose, the system automatically uses the second language in the list as a fallback. Therefore, put a second language that you understand in second position.

6.2 Setting the date and time

After the language, set the date and time. The correct time is important for navigation, the calendar display and other time-dependent functions. If the time or time zone is set incorrectly, navigation data or planned routes may show incorrect information.

- 1 Open the **Settings** app and tap **More > System**, as when setting the language.
- 2 Tap **Date & time**.
- 3 Switch off the automatic time zone (**Use network-provided time zone**).
- 4 Set the time zone, date and time manually.
- 5 Return to the home screen. The settings are saved automatically.



Date & time screen

i **Tip:** If you often travel abroad, leave the automatic time zone (via GPS or network) switched on. The system then adjusts the time automatically based on your location.

6.3 Arranging the home screen

After start-up, the home screen appears with a number of default apps. Tap the **Apps** icon on the home screen to open the Apps overview. It contains all available apps. If there are several pages, swipe left or right to move between them. The home screen and the Apps overview are shown in the images in [6.1 Setting the language](#) (p. 56).

In practice, you may rarely use some of the default apps on the home screen. You can therefore change the content and order of the home screen. To replace an app on the home screen with another app:

- 1 Go to the home screen.
- 2 Press and hold the app you want to replace for a few seconds, until the **Select application** editing menu appears.
- 3 Tap the app you want in this position. The selected app replaces the old app and appears on the home screen immediately.



Select application editing menu: choose the app for this position

Caution: The replaced app is only removed from the home screen. It remains available in the system and in the Apps overview.

Tip: Put apps you often use while driving, such as navigation, music or Bluetooth, on the home screen. This gives you quicker access to them.

6.4 Brightness and wallpaper

6.4.1 Brightness

Adjust the screen brightness to the light conditions in the car. The right brightness prevents glare when driving in the dark and keeps the screen easy to see during the day.

- 1 Open the **Settings** app (or **Auto Set**) from the main menu.
- 2 Tap **Display** (on some versions **Brightness**). The screen brightness menu opens.
- 3 Move the slider under **Brightness setting** until the screen is comfortable and easy to read.
- 4 The setting is saved automatically.



Display menu with the brightness slider and the **Wallpaper** option

i **Tip:** For the best result, lower the brightness slightly at night and increase it in bright daylight.

6.4.2 Wallpaper

You can change the screen wallpaper as you like. A different wallpaper gives the system a personal look or improves readability. For example, a dark wallpaper makes the screen easier to read at night. You change the wallpaper in the same menu as the brightness (see the image above).

- 1 Open **Settings** > **Display** (or **Brightness**).
- 2 In the same menu, tap **Wallpaper**.
- 3 Choose one of the available wallpapers, or tap **Gallery** to choose your own image.
- 4 Confirm your choice. The wallpaper is applied.

6.5 Sound: equaliser and sound balance

The system has a comprehensive equaliser and a sound balance function. By setting the frequencies and the sound balance precisely, you tune the sound to your car, your seating position and your style of music. Both functions are in the **DSP Setting** app.

6.5.1 Equaliser

- 1 Open the Apps overview from the main menu.
- 2 Open the **DSP Setting** app.
- 3 Tap the **EQ** tab.
- 4 Choose a preset sound profile on the left, or set the frequencies yourself with the sliders.

i **Tip:** Start with a preset profile, such as Pop, Rock, Jazz or Classic. Then fine-tune the sliders so that the sound better matches your personal taste.

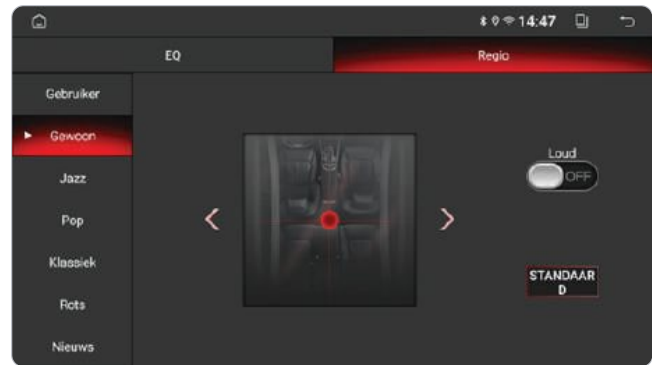
6.5.2 Sound balance (balance and fader)

In addition to the tonal balance, you can also set how the sound is distributed in the car. This determines how the sound is spread across the speakers: more to the front or rear, more to the left or right. This gives you full control over the spatial sound reproduction, so you can tune the sound to your preference and driving position.

- 1 Open the **DSP Setting** app.
- 2 Tap the second tab (sound balance).
- 3 Move the point in the image of the car interior to the position you want.



EQ tab: sound profiles and a slider for each frequency



Sound balance: move the red point

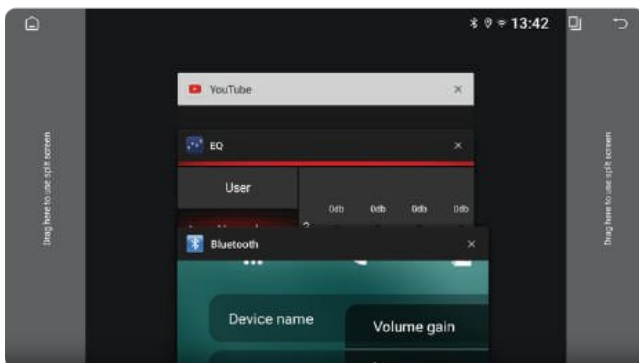
- i Tip:** For everyday use, shift the balance slightly to the front. The sound then comes naturally from the dashboard.

6.6 Split screen

Split screen lets you display and operate two apps on the screen at the same time. This is useful, for example, if you want to use navigation and music at the same time.

- 1 Tap the multitasking button at the top right of the main screen (two overlapping squares). The overview of open apps appears.
- 2 Press and hold the first app and drag it to the edge of the screen showing the text **Drag here to use split screen**.
- 3 Choose the second app. It opens in the other part of the screen.

Both apps are now displayed side by side and you can use them at the same time.



Drag an app to **Drag here to use split screen**



Result: two apps side by side

i **Tip:** Move the dividing line between the two windows to adjust their size. This lets you decide which app gets more space.

6.7

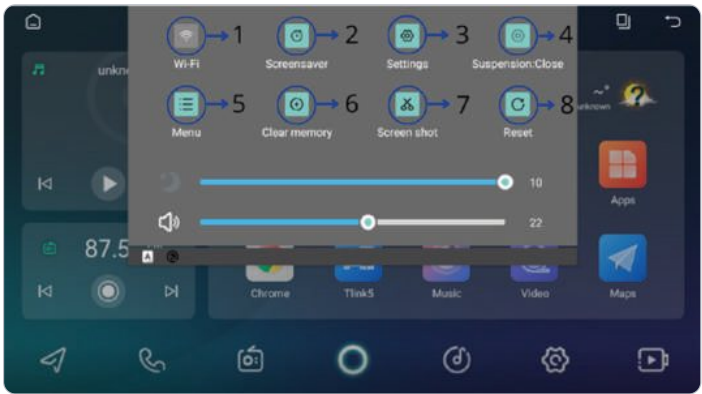
Notification bar, Float Bar, theme and files

The following functions are not needed for basic operation of the system. However, they offer extra convenience, quicker operation and more ways to customise the system: the notification bar, the floating shortcut (Float Bar), the theme and file management. Calibrating the touchscreen is described in [6.8 Calibrating the touchscreen and on-screen buttons](#) (p. 64).

6.7.1

Start-up notification bar

The notification bar gives quick access to frequently used functions. It lets you change settings directly, without first opening the full settings menu. As soon as the system has started, the bar appears at the top of the screen by default. The available functions may differ slightly between software versions. These shortcuts let you operate frequently used functions more quickly, especially while driving.



Notification bar with buttons 1 to 8

No.	Button	Function
1	Wi-Fi	Switches Wi-Fi on or off. Press and hold to open the Wi-Fi settings directly.
2	Screensaver	Puts the screen into sleep mode. Useful during long journeys or when you do not need the screen for a while. The system and other functions remain active.
3	Settings	Opens the settings menu directly, without having to browse through the Apps overview.
4	Suspension	Switches the floating toolbar (Float Bar) on or off (see 6.7.2 Shortcuts (Float Bar) (p. 62)).
5	Menu	Opens the main menu directly.
6	Clear memory	Performs a light memory reset and frees up working memory. Can help with temporary system errors or slow performance.
7	Screen shot	Takes a screenshot of the current display, for example to record settings or an error message.
8	Reset	Restarts the system. This is not a full factory reset.

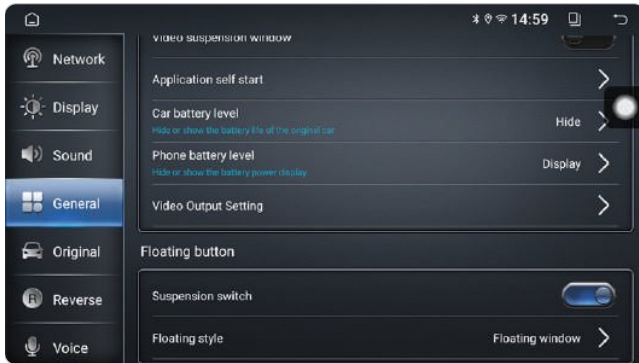
i **Tip:** Use the notification bar to change frequently used settings quickly without opening the main menu each time. This means less time spent navigating through menus.

6.7.2 Shortcuts (Float Bar)

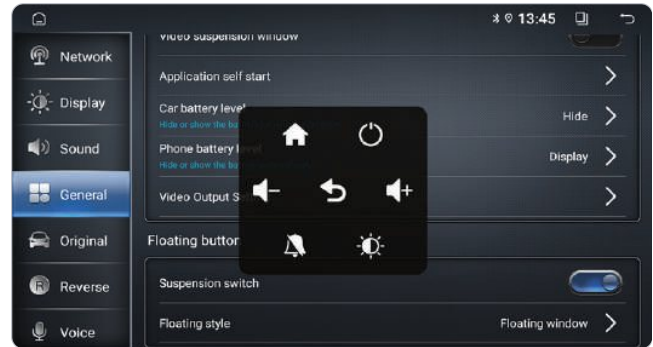
The Float Bar is an optional floating shortcut on the screen. It gives you direct access to frequently used functions, such as volume control, music controls and settings, without first returning to the main menu.

When the Float Bar is enabled, a floating button is shown on the screen. Tap it to open a compact control menu with icons. Use it, for example, to adjust the volume or skip to the next track.

- 1 Tap **Suspension** in the notification bar, or open **Settings > General**.
- 2 Under **Floating button**, switch on **Suspension switch**.
- 3 If required, use **Floating style** to choose how the Float Bar looks.



Float Bar enabled: the floating button is on the right of the screen



Open Float Bar menu

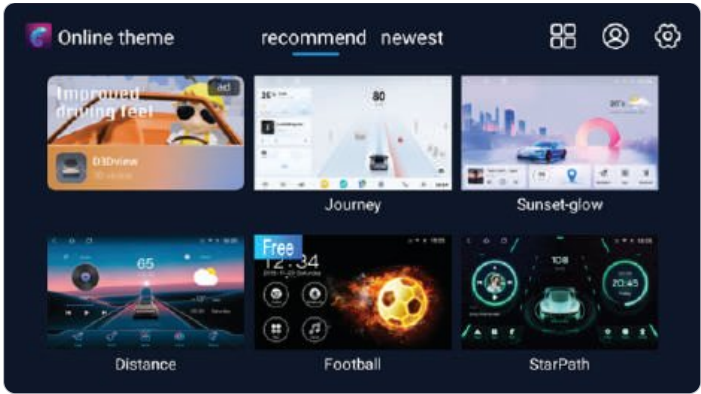
- i Tip:** Drag the Float Bar to another position on the screen. Choose a position where it is easy to reach and does not cover any menus or information.

- ! Caution:** Only use the Float Bar when it is safe to do so. Do not operate the system while driving if this distracts you from the traffic.

6.7.3 Theme

You can easily adapt the background and design of the system to your personal taste. You can do this directly from the home screen or with the separate **Theme** app. A different theme changes the overall look of the system, such as colours, icon styles and wallpapers.

- 1 Make sure you have an active Wi-Fi connection (see **7.6 Connecting to Wi-Fi** (p. 81)).
- 2 Open the Apps overview.
- 3 Open the **Theme** app. An overview of available themes appears, both free and paid.
- 4 Choose the theme you want and confirm your choice.
- 5 The new theme is applied immediately.

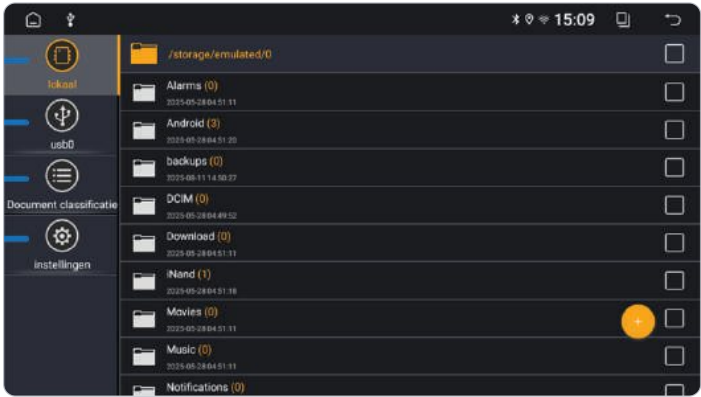


Overview of available themes in the **Theme** app

-  **Caution:** An active Wi-Fi connection is required to download and apply themes.
-  **Caution:** Remember which theme you have set. Before switching, take a photo or make a note of the current layout if required. This allows you to return to your original display easily later.
-  **Tip:** Some themes also have their own icons and their own home screen layout. Try out different styles to customise the look of the system.

6.7.4 File management and external storage

Use the **File Manager** app to manage files in the internal memory of the system or on a connected USB storage device. You can open, copy, move and delete files. When you connect a USB stick, it appears automatically in the overview of available storage locations.



File Manager: items 1 to 4 on the left, from top to bottom

No.	Item	Function
1	Internal storage (Internal Shared Storage)	Access to files in the internal memory of the system. Here you open folders and move or delete files.
2	USB storage (USB Drive)	A connected USB stick appears as a separate storage location. You can open and manage its content directly.
3	Sort files (Document classification)	File classification: shows the files in sorted order.

No.	Item	Function
4	Options menu	Change the view: show hidden files, or sort files by name, size or date. This lets you set up the file view exactly as you prefer.

i **Tip:** Always eject a USB stick safely before disconnecting it. This prevents data loss and corrupted files.

→ **See also:** 8.1 USB stick and SD card (p. 84)

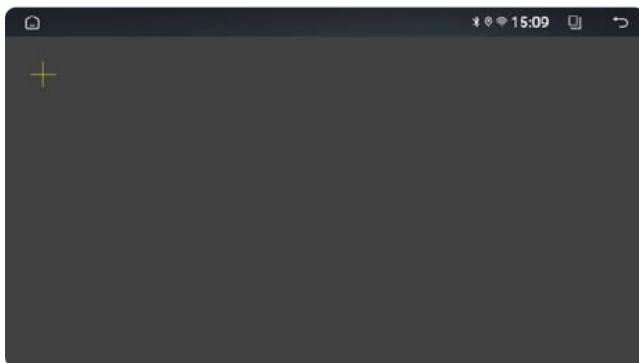
6.8 Calibrating the touchscreen and on-screen buttons

6.8.1 Calibrating the touchscreen

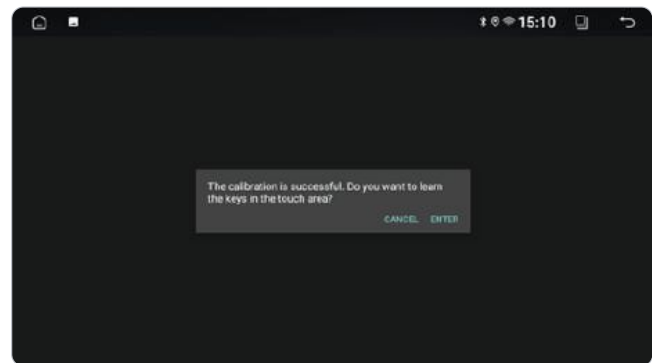
If the touchscreen does not respond properly, for example due to fingerprints or dirt, or after removing a screen protector, calibrate the screen again. Calibration resets the touch sensitivity so that the screen responds accurately to touch again.

- 1 Clean the screen with an alcohol wipe to remove dirt and grease.
- 2 Dry the screen carefully with a lint-free cloth so that no moisture or streaks remain.
- 3 Go to the home screen and scroll to an empty page, without any apps.
- 4 Press and hold the screen with five fingers at the same time. A calibration screen with calibration points appears.
- 5 Tap the coloured points one by one until each point responds.
- 6 A message appears confirming that the calibration was successful. Tap **CANCEL** to finish, or **ENTER** to calibrate the on-screen buttons as well (see 6.8.2 Calibrating the on-screen buttons (p. 65)).

The calibration is now complete. The touchscreen then works normally again.



Calibration screen: tap the marked point



Calibration successful: **CANCEL** or **ENTER**

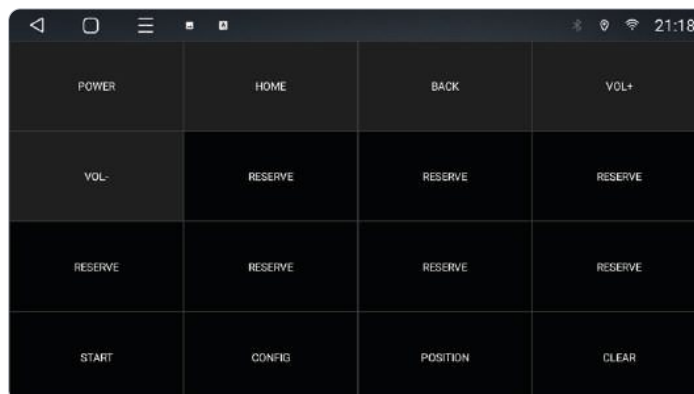
! **Caution:** During calibration, touch only the marked points. Any other touches make the calibration inaccurate.

i **Tip:** Always clean the screen with a soft microfibre cloth before calibrating. This prevents dust and fingerprints from affecting the measurement.

6.8.2 Calibrating the on-screen buttons

If the on-screen buttons, such as Home, Back or Volume, do not respond accurately, calibrate them in the same way as the touchscreen. The system then recognises the touch zones of the buttons correctly again.

- 1 Carry out the steps for calibrating the touchscreen and tap **ENTER** in the last step. The button calibration menu appears.
- 2 Tap **START** to start the calibration.
- 3 On the screen, tap the button you want to set, for example **POWER** or **HOME**.
- 4 Press the physical button on the unit that you want to link to this function. The button is recognised and linked.
- 5 Repeat steps 3 and 4 for each button you want.
- 6 Tap **CONFIG** to save the settings.



Calibration menu for the on-screen buttons

Optional functions in this menu:

- **POSITION:** shows the current positions of the calibrated buttons.
- **CLEAR:** clears all existing assignments. Only use this if necessary, for example if a button has been assigned incorrectly.

i **Tip:** Afterwards, test all buttons to check that they respond correctly.

6.9 Device information and storage

6.9.1 Device information

The **About** menu shows the technical details of the device, such as the Android version, the processor, the working memory (RAM), the storage capacity and the software versions. Remember where to find this information: Davilon customer service may ask for it when providing technical support or dealing with software problems.

- 1 Open the **Settings** app (or **Auto Set**), recognisable by the gear icon.
- 2 Tap **About**. The system information appears clearly on the screen. Swipe up for more details.



About: general and hardware information



About: storage and software versions

6.9.2 Storage usage

The system has internal storage space for files and apps. Part of it is reserved for the operating system and is not available for your own use. If the available storage runs out, the system may perform less well and apps respond more slowly. Therefore, check regularly how much storage space is still free, and delete unused files or apps if necessary.

- 1 Open **Settings** > **More** (see 6.1 Setting the language (p. 56) if you do not know how to open this menu).
- 2 Tap **Storage**.
- 3 Tap **Internal shared storage** to see the usage in detail.
- 4 If necessary, delete files or apps you no longer use.



Android settings with the **Storage** option



Storage usage per category

i Tip: Keep at least 20% of the storage space free for stable operation. This prevents the system from slowing down and leaves enough space for temporary files.

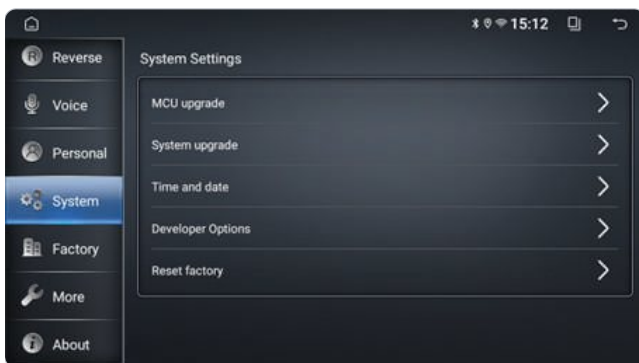
6.10 Restoring the factory settings

Sometimes you need to reconfigure the system settings, for example if a function does not work correctly. The system has several recovery options for this. This section only explains how to restore the factory settings.

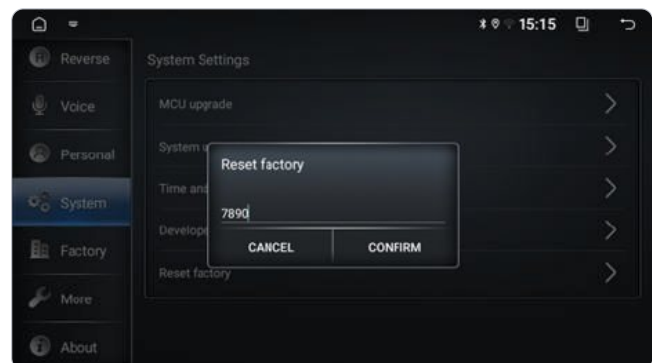
A factory reset returns the entire system to its condition on delivery. All personal data, apps and custom settings are permanently deleted. The system then restarts automatically. Use this function mainly if you want to sell the system, or in the event of serious faults that you cannot resolve with other settings.

Caution: A factory reset permanently deletes all personal data, downloaded apps and custom settings.

- 1 Open the **Settings** app (see [6.1 Setting the language](#) (p. 56) if you do not know how to open this menu).
- 2 Tap **System**.
- 3 Tap **Reset factory**.
- 4 Enter the code 7890.
- 5 Tap **CONFIRM**. The system is completely erased and restarts automatically.



System menu with **Reset factory** at the bottom



Enter the code and confirm with **CONFIRM**

i Tip: After the restart, check the basic settings, such as the language and the date and time (see [6.1 Setting the language](#) (p. 56) and [6.2 Setting the date and time](#) (p. 57)). This ensures that all functions are set up and working correctly.

→ **See also:** If you only want to restart the system, use the **Reset** button in the notification bar ([6.7.1 Start-up notification bar](#) (p. 61)).

6.11 Installing updates

The system regularly receives software updates. These improve stability, add new functions or fix minor bugs. You can update the system in two ways:

- **Online via Wi-Fi:** when the system is connected to Wi-Fi, it searches for updates by itself (see [7.6 Connecting to Wi-Fi](#) (p. 81)).
- **Via a USB stick:** with an update file that you receive from Davilon customer service.

Sometimes a manual update is necessary, for example on the advice of Davilon customer service. This is the case if a specific software version needs to be installed, or if a fault can only be resolved with an update.

You install an update in the same menu as the factory reset (see the image in [6.10 Restoring the factory settings](#) (p. 67)). Instead of **Reset factory**, choose the appropriate update option.

- 1 If you are updating via a USB stick, connect the USB stick with the update file from customer service to the system.
- 2 Open the **Settings** app.
- 3 Tap **System**.
- 4 Choose the update specified by customer service:
 - **MCU upgrade**: updates the hardware control.
 - **System upgrade**: updates the Android system software.
- 5 Follow the instructions on the screen to start the update.
- 6 Wait until the installation is fully complete and the system has restarted automatically.
- 7 Check that all functions work correctly again.

! **Caution:** Do not switch off the ignition or remove a USB stick during an update. An interrupted update can cause error messages or system faults.

i **Tip:** Updates supplied by Davilon customer service have been tested in advance and are safe to install. Follow the instructions supplied carefully.

Chapter 7

Phone and internet

Connect your smartphone to the Davilon system via Bluetooth, Apple CarPlay or Android Auto. You can also connect the system to the internet via Wi-Fi and install apps from the Google Play Store.

The system supports several connection options. These let you make hands-free calls, stream music, navigate and use apps while driving, among other things. Choose the connection method that best suits your vehicle, your phone and your daily use:

- **Bluetooth:** connect wirelessly, make hands-free calls and stream music. This is also where you set the microphone and the call volume for good speech quality.
- **Apple CarPlay and Android Auto:** a more extensive connection with your smartphone, with integrated apps for navigation, calls and music.
- **Online functions and Wi-Fi:** connect to the internet and install apps from the Google Play Store.

Playing music and video from a USB stick or SD card is described in [8.1 USB stick and SD card](#) (p. 84).



With the connection app, you use Apple CarPlay (left) or Android Auto (right) on the screen of the system.

7.1

Bluetooth

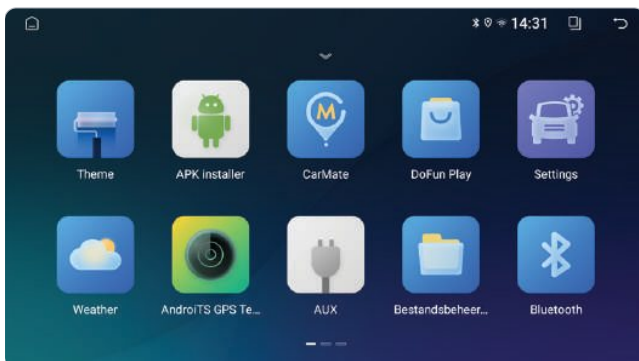
The Davilon 4 series has Bluetooth. This lets you connect your smartphone wirelessly to the system. Bluetooth lets you make hands-free calls, stream music and synchronise contacts (if your phone supports this). You only need to pair your phone once. After that, the system recognises your phone automatically as soon as Bluetooth is switched on.

Caution: Bluetooth only works when CarPlay or Android Auto is not active. If you only want to use Bluetooth, reject the CarPlay or Android Auto connection request when it appears on the screen.

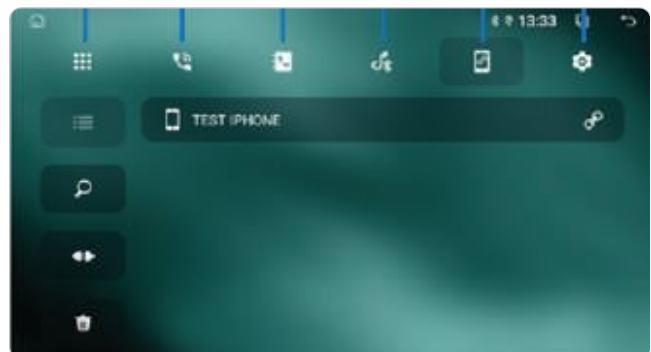
7.1.1 Pairing a phone

Caution: Do not pair Bluetooth devices while driving. Only pair when the vehicle is stationary.

- 1 In the apps overview, tap **Bluetooth**.
- 2 Tap the gear icon at the top right (icon 6 in the toolbar). The settings menu shows the name (**Device name**) and the PIN (**PIN password**) of the system.
- 3 To change the visible Bluetooth name, tap **Device name** and enter a new name.
- 4 To change the PIN, tap **PIN password** and enter a new PIN.
- 5 On your smartphone, open the Bluetooth settings and search for the displayed name of the system. If necessary, refer to your phone's user manual for more information.
- 6 Select the system on your smartphone.
- 7 Enter the PIN if prompted.
- 8 Confirm the pairing request on your smartphone.
- 9 If you wish, allow access to your contacts and call history. You can also do this later; see [7.1.2 Importing the phone book](#) (p. 71).
- 10 Tap the phone icon in the toolbar (icon 5) to open the list of paired devices. Here you manage previously connected phones or select them again.



Apps overview. **Bluetooth** is at the bottom right.



Bluetooth screen. The toolbar contains six icons, numbered 1 to 6 from left to right, including the phone book (3), music (4), the list of paired devices (5) and the settings (6, gear).



Bluetooth settings: name (**Device name**), PIN (**PIN password**), microphone sensitivity (**Microphone gain**) and call volume (**Volume gain**).

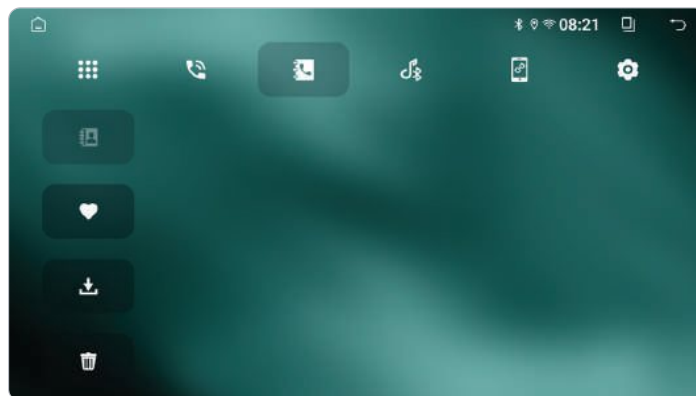
- i** **Tip:** If pairing does not work straight away, first delete the existing Bluetooth connection with the system on your smartphone and pair again.

7.1.2 Importing the phone book

To call a contact without dialling a phone number yourself, import your phone book. Your contacts are then shown on the screen of the system.

The imported contacts are only visible while your smartphone is connected to the system via Bluetooth. If someone else pairs a phone, they cannot see the previous user's data.

- 1 Connect your smartphone to the system via Bluetooth.
- 2 Tap the phone book icon in the toolbar.
- 3 Tap the download icon to start importing.
- 4 A request for access to your contacts appears on your smartphone. Confirm this request to start the transfer.
- 5 Wait a few seconds until the contacts appear on the screen of the system.
- 6 Select a contact and call them directly from the screen.



Phone book. Use the download icon (down arrow, left) to start importing.

- i** **Tip:** If the phone book does not appear automatically, check that you have allowed contact details to be shared with Bluetooth devices on your smartphone. You can always change this permission later in your phone's Bluetooth settings.

7.1.3 Playing music via Bluetooth

The Bluetooth music function lets you play music from your smartphone wirelessly through the system. You control the music with the touchscreen, so you do not need to operate your smartphone while driving.

- 1 Connect your smartphone to the system via Bluetooth.
- 2 Tap the music icon in the toolbar. The Bluetooth music app opens.
- 3 Choose a track on your smartphone and start playback.
- 4 Use the buttons on the touchscreen to pause, skip or replay the track.
- 5 If you wish, switch to another menu. The music continues to play in the background.



Bluetooth music: title, artist, progress and the previous, play/pause and next buttons.

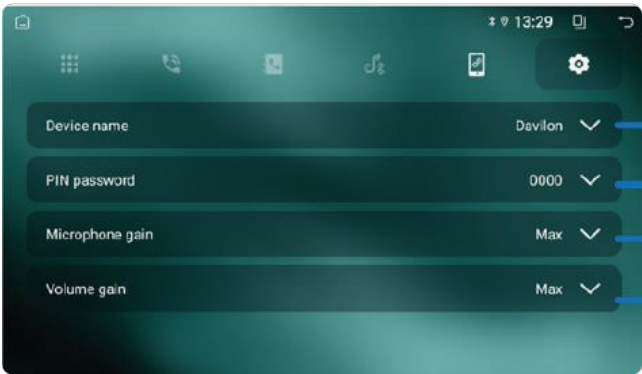
Caution: The music continues to play when you go to another menu or screen. The music stops when you switch to another media source, such as USB, radio, CarPlay or Android Auto.

Tip: CarPlay and Android Auto offer more extensive controls and a more stable connection. Among other things, you then have voice control via Siri or Google Assistant and can control music more easily while driving. See [7.3 Apple CarPlay](#) (p. 75) and [7.4 Android Auto](#) (p. 77).

71.4 Setting the microphone sensitivity

In the Bluetooth settings, you adjust the microphone for optimum sound quality during hands-free calls. Use **Microphone gain** to set how sensitive the microphone is. The default setting **Medium** suits most vehicles. If there is a lot of background noise, or the microphone is further from the driver, increase or decrease the sensitivity.

- 1 In the Bluetooth app, tap the gear icon.
- 2 Tap **Microphone gain** (item 3 in the image).
- 3 Choose a setting from the table.



Bluetooth settings: 1 **Device name**, 2 **PIN password**, 3 **Microphone gain**, 4 **Volume gain**.



Microphone gain drop-down list.

Setting	When to use
Low	Quiet vehicle, or the microphone is close to the driver.
Medium	Default; recommended for normal use.
High	More ambient noise, or the microphone is further from the driver.

Setting	When to use
Max	Only with a lot of background noise. May amplify slight hiss.

i **Tip:** During a test call, ask the other person whether they can hear you clearly. Adjust **Microphone gain** until your voice comes through clearly. Take your time over this, so that you are easy to understand during hands-free calls.

7.1.5 Setting the call volume

In addition to the microphone sensitivity, you can also adjust the call volume. Use **Volume gain** to set how loud the other person's voice sounds through the speakers during hands-free calls. The default setting **Medium** suits most vehicles. If the other person's voice sounds too quiet or distorted, increase or decrease the volume.

- 1

In the Bluetooth app, tap the gear icon.
- 2

Tap **Volume gain** (item 4 in the image in 7.1.4 Setting the microphone sensitivity (p. 72)).
- 3

Choose a setting from the table.



Volume gain drop-down list.

Setting	When to use
Low	Quiet vehicle, or the speakers are close to the driver.
Medium	Default; recommended for normal use.
High	More ambient noise, or the other person's voice sounds too quiet.
Max	Only with a lot of road noise. May cause slight distortion or echo.

i **Tip:** Make a short test call to check the call volume. Adjust **Volume gain** until the other person is clearly audible, without the sound being too sharp or too loud. A good setting ensures comfortable and safe hands-free calling while driving.

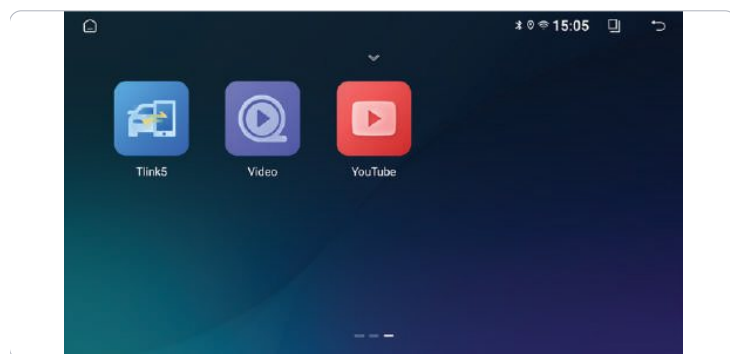
7.2 The connection app

You start Apple CarPlay and Android Auto via the system's integrated connection app. This app establishes the connection between your smartphone (iPhone or Android) and the system. After the first successful pairing, CarPlay or Android Auto starts automatically whenever you switch on the ignition.

7.2.1 Recognising the app

The name of the connection app depends on the type of system. The most common names are:

- T-Link5 (TLink5)
- Z-Link
- Z-Link 5
- X-Car
- Speedplay
- Autolink
- S-Play



The TLink5 app on the home screen.



Z-Link



Z-Link 5

7.2.2 Choosing the correct connection mode

The TLink5 app and similar apps, such as Z-Link and X-Car, support several connection modes: Apple CarPlay / Android Auto, MirrorLink and Huawei Connect (HC). Always choose the correct mode before connecting your phone. If the wrong mode is active, for example MirrorLink instead of CarPlay or Android Auto, the connection fails or the screen hangs on **Connecting**.



Connection screen with CarPlay as an example. Choose the mode at the bottom right; "CarPlay/AA" is shown at the top when the correct mode is active.



The same connection screen with Android Auto as an example.

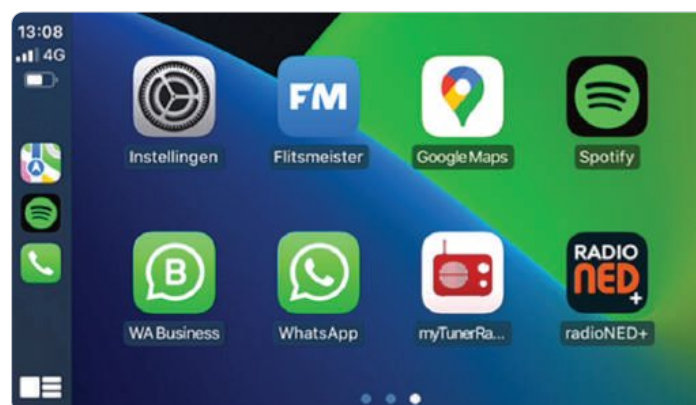
Icon	Mode	Use
Screen icon (blue)	Apple CarPlay / Android Auto	When this icon is selected in blue, the system is in the correct mode for CarPlay and Android Auto. "CarPlay/AA" is shown at the top of the screen next to the house icon. The phone on the connection screen shows CarPlay or Android Auto as an example. Use this mode for iPhones (CarPlay) and always for Android smartphones that connect via Android Auto.
Two small screens in an orange circle	MirrorLink	"MirrorLink" is shown at the top and bottom of the screen. Only intended for Android phones that support screen mirroring (and do not use Android Auto).
HC icon	Huawei Connect (HiCar)	Only for Huawei smartphones that support Huawei Connect (HiCar).
Gear icon	Settings	Opens the app's settings menu, where you manage, adjust or reset the connection options. See 7.5 Managing the connection app (p. 80).

The image of the phone on the connection screen alternates between CarPlay and Android Auto. This does not affect operation. As long as the blue screen icon is active, the correct mode is set for both systems.

i Tip: If no connection is established, first check that the blue screen icon is active, and not MirrorLink or Huawei Connect. This prevents most connection problems.

7.3 Apple CarPlay

Apple CarPlay lets you operate your iPhone safely and easily via the system while driving. You can navigate, make calls, receive messages, listen to music and use apps without holding your phone. CarPlay is fully integrated with the buttons and touchscreen of the system. Apple determines how CarPlay works; this may differ by iOS version and iPhone model.



Apple CarPlay on the system.

i Tip: CarPlay may use mobile data. Make sure you have an active data plan on your iPhone.

! Caution: While CarPlay is in use, the system's Bluetooth function is reserved for CarPlay. You cannot use any other Bluetooth functions of the system at that time.

7.3.1 Requirements and preparation

For Apple CarPlay you need:

- A Davilon system that supports CarPlay.
- An iPhone 5 or later, with the latest iOS version that your iPhone supports.
- An original Lightning to USB cable (only for a wired connection).
- Siri enabled on the iPhone. CarPlay does not work without Siri.

Before you start:

- 1 Switch on the ignition.
- 2 Put the gear lever in P (Park) or make sure the vehicle is completely stationary.
- 3 On your iPhone, check under Settings > Siri & Search that Siri is switched on.
- 4 Take the time to complete the pairing fully before you start driving.

7.3.2 Connecting CarPlay via USB

A USB cable gives you a direct, wired connection between your iPhone and the system.

- 1 Connect a suitable USB cable to the USB port of the system (6-pin connector to USB). Preferably use an original Apple cable that supports data transfer.
- 2 Connect your iPhone to the USB cable.
- 3 On the home screen, open the connection app (T-Link5, Z-Link or X-Car; see [7.2.1 Recognising the app](#) (p. 74)). The connection screen appears.
- 4 Check that the correct connection mode is active (see [7.2.2 Choosing the correct connection mode](#) (p. 74)).
- 5 Unlock your iPhone if necessary.
- 6 On your iPhone, allow CarPlay to be used with this vehicle.
- 7 Wait a few seconds. The CarPlay home screen opens automatically.



Connection screen after opening the connection app: "Please connect your phone to this device with USB or Bluetooth".

Caution: Do not use cheap or damaged cables. They can disrupt the connection or prevent CarPlay from being recognised.

! Caution: If CarPlay does not work, check on your iPhone under Settings > Siri & Search that Siri is switched on. CarPlay does not work without Siri.

7.3.3 Connecting CarPlay wirelessly

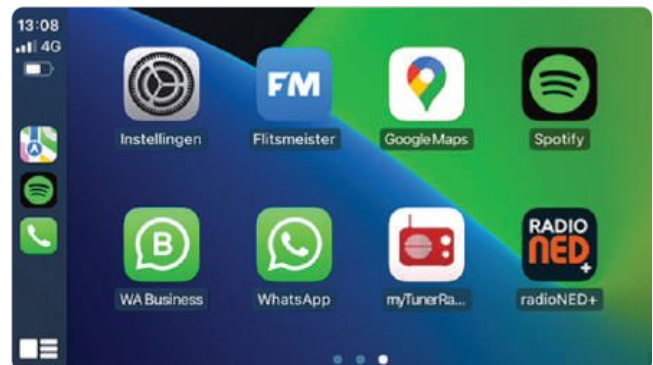
If your system supports wireless CarPlay, you can connect your iPhone without a USB cable. The connection runs via Bluetooth and Wi-Fi and is virtually automatic after the first pairing.

! Caution: Not all Davilon models support wireless CarPlay. Check this beforehand in the specifications of your system (see [3.5 Technical specifications](#) (p. 14)).

- 1 Switch on Bluetooth and Wi-Fi on your iPhone.
- 2 Check that Siri is switched on.
- 3 On the home screen, open the connection app (T-Link5, Z-Link or X-Car). The connection screen appears.
- 4 On your iPhone, open the list of available Bluetooth devices.
- 5 Select the name of the system and connect.
- 6 Wait until the connection screen shows the message **Connecting**.
- 7 Wait a few seconds. The CarPlay home screen opens automatically.



The connection is being established: "Connecting, please wait".

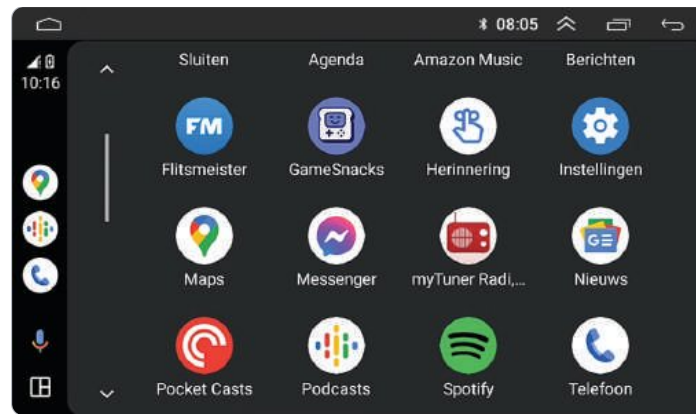


The CarPlay home screen opens automatically.

i Tip: The first pairing may take a little longer. Once your iPhone is paired, CarPlay connects automatically on your next journey as soon as you switch on the ignition.

7.4 Android Auto

Android Auto lets you use your Android smartphone safely via the screen of the system. While driving, you have access to navigation, music, messages and hands-free calling, without holding your phone. Depending on your smartphone and system, Android Auto works wired via USB or wirelessly via Wi-Fi. This section explains how to connect and what to do if Android Auto does not connect straight away.



Android Auto on the system.

Caution: While Android Auto is in use, the system's Bluetooth function is reserved for Android Auto. You cannot pair other Bluetooth devices or play music via Bluetooth at that time.

7.4.1 Requirements and preparation

For Android Auto you need:

- A Davilon system that supports Android Auto.
- An Android smartphone with Android 6.0 (Marshmallow) or higher.
- An original USB data cable that supports data transfer.

Before you start:

- 1 Switch on the ignition.
- 2 Put the gear lever in P (Park) or make sure the vehicle is completely stationary.
- 3 Check that the Android Auto app is installed on your smartphone and up to date.
- 4 Switch on Bluetooth and location services on your phone.
- 5 Take the time to complete the pairing fully before you start driving.

Tip: Check in the Google Play Store that the latest version of the Android Auto app is installed. Newer versions can improve compatibility with your phone and provide a more stable connection.

7.4.2 Starting Android Auto

You also start Android Auto via the system's connection app (see [7.2.1 Recognising the app](#) (p. 74)). After the first successful pairing, Android Auto opens automatically whenever you switch on the ignition.

Always check that the correct connection mode is selected before connecting your phone: the blue screen icon. If, for example, MirrorLink is active instead of Android Auto, the connection fails or the screen hangs on **Connecting**. The modes are explained in [7.2.2 Choosing the correct connection mode](#) (p. 74).

7.4.3 Connecting Android Auto via USB

A wired connection is the most stable way to use Android Auto. With a suitable USB data cable, you connect your smartphone directly to the system. Android Auto then starts automatically.

- 1 Connect a suitable USB data cable to the USB port of the system (6-pin connector to USB). Preferably use an original cable from your phone manufacturer.
- 2 Connect the other end to your smartphone. As soon as the phone is recognised, a charging or connection icon appears on the screen.
- 3 Wait until Android Auto starts automatically. In most cases it does. If it does not start, open the connection app (TLink5, Z-Link or X-Car).
- 4 Unlock your smartphone if necessary.
- 5 On your smartphone, allow the connection to Android Auto. If you wish, confirm "Always allow in this car"; your phone will then connect automatically from now on.
- 6 Android Auto now opens automatically on the screen of the system.

! **Caution:** Some USB cables are only suitable for charging and do not support data transfer. Always use an original or certified data cable. Cheap or worn cables can cause connection errors or prevent Android Auto from being recognised.

i **Tip:** After the first successful pairing, your smartphone connects automatically whenever you switch on the ignition.

7.4.4 Connecting Android Auto wirelessly

If both your system and your smartphone support wireless Android Auto, you can connect without a USB cable. This is particularly convenient if you often make short journeys or prefer not to plug in a cable.

- 1 Switch on Bluetooth and Wi-Fi on your smartphone. Both are required for wireless Android Auto.
- 2 On the system, open the connection app (TLink5, Z-Link or X-Car).
- 3 Check that the correct connection mode is active (see [7.2.2 Choosing the correct connection mode](#) (p. 74)).
- 4 Open the Bluetooth settings on your phone and search for the name of the system.
- 5 Select the system to pair and confirm the PIN on both devices. As soon as the Bluetooth connection is established, the system shows **Connecting to Android Auto** or **Waiting for connection**.
- 6 On your smartphone, allow access to Android Auto. If you wish, choose "Always allow in this car"; your phone will then connect automatically on future journeys.
- 7 Wait until the Android Auto home screen opens automatically.

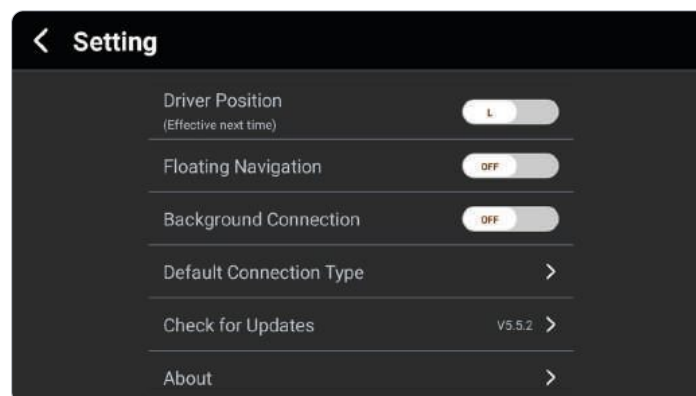
i **Tip:** If the wireless connection does not work straight away, connect once via USB first. After that, the wireless connection works automatically on future journeys.

7.5 Managing the connection app

This applies to both CarPlay and Android Auto. In the settings menu of the connection app (TLink5, Z-Link or X-Car), you can adjust various options and update the app.

7.5.1 Opening the settings

- 1 Open the connection app for CarPlay or Android Auto (TLink5, Z-Link or X-Car).
- 2 On the connection screen, tap the gear icon (see [7.2.2 Choosing the correct connection mode](#) (p. 74)). The **Setting** menu opens with several options, including **Check for Updates**.



Settings menu of the connection app. The current version is shown next to **Check for Updates**.

7.5.2 Updating the app

Update the app regularly. Updates improve compatibility with new phones and new Android versions. This keeps the connection between your phone and the system stable and keeps CarPlay and Android Auto working reliably.

- 1 Connect the system to the internet via Wi-Fi (see [7.6 Connecting to Wi-Fi](#) (p. 81)).
- 2 Open the settings menu of the connection app.
- 3 Tap **Check for Updates**. The system checks whether a new version is available.
- 4 Follow the instructions on the screen to complete the update.
- 5 Close the app completely after the update.
- 6 Open the app again to activate the changes.

7.5.3 Reinstalling TLink5 or Z-Link6

Caution: Never uninstall the connection app (TLink5, Z-Link or X-Car) yourself. An uninstalled app is removed completely from the system and is not restored automatically after a restart (reboot).

On certain Davilon systems, you use CarPlay and Android Auto via the Tlink5 app. If Tlink5 is no longer on the system, for example because the app was uninstalled by mistake, reinstall the connection app via DoFun Play. You will then get Z-Link6, the successor to TLink5. Z-Link6 works for Apple CarPlay and Android Auto.

- 1 On the system, open the overview of all apps.
- 2 Find the **DoFun Play** app and tap it.

- 3 At the top of DoFun Play, tap **Class**. The Z-Link6 app is in this category.
- 4 Find **Z-Link6** and tap **Download**. The app is reinstalled.



Home screen of the system.


Overview of all apps: tap **DoFun Play**.

Tap **Class** at the top.

Z-Link6 in the **Class** category. **Update** is shown here because the app is already installed; if the app is missing, choose **Download**.

Alternatively, you can restore the system to its factory settings (see [6.10 Restoring the factory settings](#) (p. 67)). The connection app is then reinstalled automatically.

- i Tip:** After restoring the factory settings, always check the basic settings, such as language, date, time and brightness (see [6.1 Setting the language](#) (p. 56)). This ensures that the system is set up correctly before you use CarPlay or Android Auto again.

7.6 Connecting to Wi-Fi

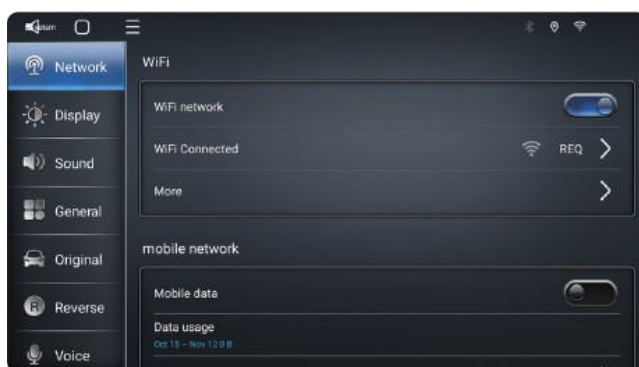
In addition to its extensive offline capabilities, the system also has online functions. Thanks to the Android operating system and the built-in Wi-Fi receiver, you can download and use apps, just like on a smartphone or tablet. The easiest way to connect the system to the internet is via Wi-Fi: you connect to an available wireless network.

- 1 To use the internet via your smartphone, switch on the hotspot on your phone.
- 2 Open **Settings**.
- 3 Tap **Network**.
- 4 Switch on Wi-Fi.

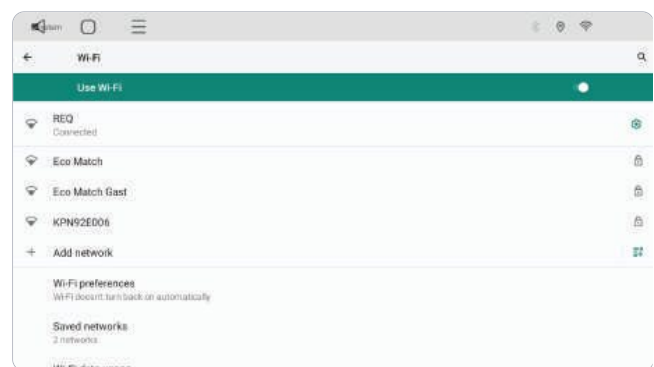
- 5 Tap Wi-Fi to show the available networks.
- 6 Choose the network you want.
- 7 Enter the network password or PIN. The system connects automatically.



Home screen. Use the gear icon in the bottom bar to open the settings.



Switching on Wi-Fi in **Network**.



List of available networks. Choose a network and enter the password.

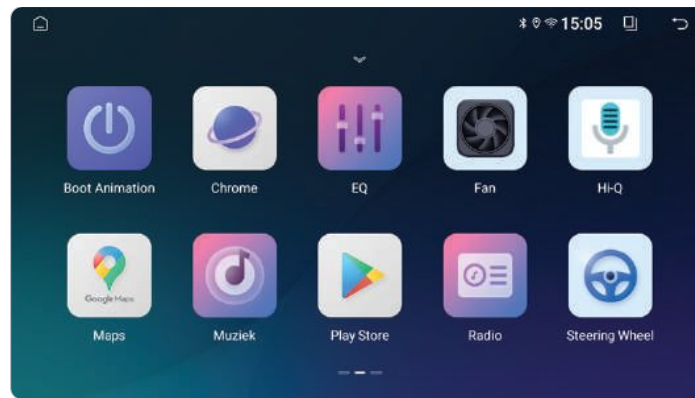
Caution: If you use Apple CarPlay or Android Auto **wirelessly**, the system cannot be connected to the internet via Wi-Fi at the same time, because the wireless connection uses the system's Wi-Fi module. With a USB cable (wired), CarPlay and Android Auto do work together with a Wi-Fi internet connection.

Tip: On the road, preferably use your smartphone's hotspot. This gives the system internet access even outside the range of a fixed Wi-Fi network.

7.7 Google Play Store

When the system is connected to the internet, you have access to the Google Play Store. There you can download, update and manage apps, just like on a smartphone or tablet.

- 1 In the apps overview, open **Play Store**.
- 2 The first time, sign in with your Google account.
- 3 Search for the app you want.
- 4 Tap **Install** to download the app.



Apps overview. **Play Store** is in the bottom row.

Available updates are shown automatically in the Play Store. Make sure you have a stable Wi-Fi connection while downloading and updating apps.

i **Tip:** Most apps need an active internet connection to work fully. If you use the system without Wi-Fi or a hotspot, some functions are limited or do not work.

! **Caution:** Always follow the developer's instructions when installing and using apps. Davilon is not responsible for errors, limitations or changes in third-party apps. While driving, only use apps that you can operate safely.

→ **See also:** [9.6 Connections](#) (p. 105)

Chapter 8

Media and radio

Play music and videos from a USB stick or SD card and listen to FM and AM radio, DAB+ and internet radio on the Davilon system.

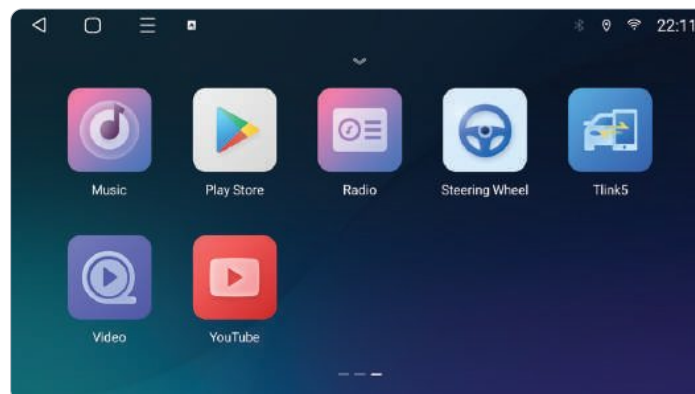
8.1 USB stick and SD card

The system plays music and video files directly from a USB stick or SD card. This makes it easy to listen to or watch your own media. You do not need to connect a phone via Bluetooth, Apple CarPlay or Android Auto for this. This section explains how to open the correct app, choose files and use the playback functions.

8.1.1 Opening media

When you insert a USB stick or SD card, the system automatically recognises it as external storage. Playback does not start automatically. Open the correct app yourself:

- **Music:** for playing audio files.
- **Video:** for watching video files.



The **Music** (top) and **Video** (bottom) apps in the Apps overview

i Tip: Route a USB extension cable neatly and out of sight, for example to the glove box. This makes it easy to change media without visible cables.

8.1.2 Playing music

The system automatically recognises music files on a USB stick or SD card and shows them in the **Music** app.

- 1 Insert the USB stick or SD card.
- 2 Open the **Music** app.
- 3 Tap **Files** to open folders and browse the file structure.
- 4 Tap the required track to play it.

- 5 Use the control buttons to pause, skip or repeat a track.
- 6 If necessary, adjust the sound profile to your preference with the equaliser (EQ).



Music app with the control bar at the bottom

The app is easy to operate. The buttons in the control bar, from left to right:

No.	Button	Function
1	Files	Opens the overview of folders and available media files.
2	Previous	Plays the previous track or video.
3	Pause / Play	Pauses the current playback or resumes playback.
4	Next	Plays the next track or video.
5	Equaliser (EQ)	Opens the sound settings so you can adjust the sound as you wish.
6	Repeat	Repeats the current track or the entire playlist.

i **Tip:** Tap the heart icon to add a track to your favourites. The track is saved in the **Favorites** menu, so you can find it quickly later.

→ **See also:** 6.5.1 Equaliser (p. 59)

8.1.3 Playing video

! **Caution:** Only use this function when the vehicle is stationary. For safety reasons, the system automatically disables video playback while driving in some vehicles.

- 1 Insert a USB stick or SD card containing video files into the system.
- 2 Open the **Video** app from the Apps overview.
- 3 Browse to the folder containing your videos.
- 4 Tap the required video to start playback.
- 5 Use the control buttons to pause, fast-forward or restart the video.

i

Tip: If you want to watch films or series, copy the files to a USB stick in advance. Streaming via apps such as YouTube or Netflix is only possible if the system has an active internet connection (see [7.6 Connecting to Wi-Fi](#) (p. 81)).

8.1.4 Supported formats

The system supports most common video formats, including MP4, AVI and MKV. Use a USB stick or SD card formatted as FAT32.

8.2 FM and AM radio

The system has FM and AM radio as standard. Select the band with the **BAND** button. This section explains how to use the radio and what additional options there are for listening to your favourite stations easily.

The radio supports RDS (Radio Data System). If a station broadcasts RDS information, the screen automatically shows the station name and additional information.

i

Tip: Whether RDS information is available depends on the station and on your vehicle's antenna.



Radio screen

Element	Position on the screen	Function
Tuning bar	Top	Manual tuning by moving the red marker.
Preset stations (P1-P6)	Right	Saved stations; swipe for more positions.
BAND	Left	Selects the band: FM or AM.
Search (magnifying glass)	Bottom, first button	Automatically searches for the next station.
EQ	Bottom, third button	Opens the sound settings (equaliser).

8.2.1 Searching for stations

There are two ways to search for radio stations:

- **Manual search:** use the tuning bar at the top of the screen. To tune to a station, drag the red marker to the required frequency.

- **Automatic search:** tap the **Search** button. The radio automatically searches for the next frequency with sufficient signal strength.

8.2.2 Saving stations

Save your favourite stations as presets. This lets you switch between them quickly.

- 1 Tune to the station you want.
- 2 Press and hold one of the preset buttons (on the right of the screen) for a few seconds.
- 3 The station is saved in the selected position.

You can save a total of 18 preset stations. Swipe to the next page in the preset menu for more positions.

8.2.3 Other radio functions

In addition to searching for and saving stations, the radio has these additional functions:

- **Equaliser (EQ):** tap the EQ button to open the sound settings menu. Here you adjust the bass, mid-range and treble.
- **DX / LOC:**
 - DX (Distance) also searches for weaker or more distant stations.
 - LOC (Local) limits the search to strong, local stations in the immediate area.

Choose the DX/LOC setting that best suits your location. This gives you the best radio reception.

8.3 DAB+ digital radio

The system supports DAB+ (Digital Audio Broadcasting). This lets you listen to digital radio with high sound quality and a wider choice of stations. This requires a DAB+ adapter. It is available separately and is not supplied as standard.

Caution: Mount the DAB+ antenna carefully. The antenna must not be in the driver's field of view.

- 1 Connect the DAB+ adapter to the USB input on the back of the system.
- 2 Stick the supplied window antenna to the windscreen.
- 3 Open the DAB+ app from the Apps overview.
- 4 Start an automatic station search.

Tip: If there is no DAB+ app on your system, download the DAB-Z app from the Google Play Store (see 7.7 Google Play Store (p. 82)).

8.4 Internet radio

In addition to FM, AM and DAB+, you can also listen to internet radio. Internet radio gives you access to radio stations from all over the world. With a stable internet connection, playback is free of interference.

There are two ways to use internet radio:

- On the system itself, with an app from the Google Play Store.
- Via Apple CarPlay or Android Auto. You then control the radio app directly from your phone.

Popular internet radio apps:

- myTuner
- Radio JUKE
- Radio FM
- Apps for local internet radio stations

i Tip: Internet radio offers more stations than traditional radio and also works in areas without FM reception. Make sure you have a stable internet connection via Wi-Fi or your smartphone's hotspot.

→ **See also:** Downloading and using apps: [7.6 Connecting to Wi-Fi](#) (p. 81) and [7.7 Google Play Store](#) (p. 82). Apple CarPlay and Android Auto: [7.3 Apple CarPlay](#) (p. 75) and [7.4 Android Auto](#) (p. 77).

→ **See also:** [9.5 Radio reception](#) (p. 103), [9.8 GPS and media](#) (p. 112)

Chapter 9

Troubleshooting

After correct installation and configuration, the Davilon system should work normally. If a function does not work as expected, the system is usually not faulty. Look up your problem and carry out the checks in the order shown in the table.

9.1 Diagnosis: how to proceed

Many problems are caused by an incomplete connection, an incorrect power or vehicle-specific signal, a setting or a connected accessory. Therefore, use this chapter as a diagnostic sequence. Always work in this order:

- 1 Check that you are using the correct power cable for the vehicle. See [4.3 Choosing the correct power cable](#) (p. 18).
- 2 Check that all connectors are fully connected and that the installation matches the installation chapter. See [4.14 Power cable wiring diagram](#) (p. 38).
- 3 Check that any vehicle-specific settings are set correctly.
- 4 Determine whether the problem occurs with all sources or functions, or with only one source or function.
- 5 Start with the first check for your problem. Work from the basics to the control signals: first the cable set and physical connections, then power and ground, then the CAN bus or vehicle-specific control, and only then the settings.
- 6 Only move on to the next check once the previous check is in order.

This way you find, step by step, where the signal chain is interrupted. It also prevents unnecessary changes to wiring or settings when the cause lies, for example, in the cabling.

Caution: Never force a connector. Only replace a fuse with a fuse of the same amperage.

9.1.1 Control signals

The signals below are referred to throughout this chapter. Their exact use differs per vehicle and cable set. Therefore, always check the wiring diagram of your cable set. Wire labels: see [4.14 Power cable wiring diagram](#) (p. 38).

Signal	Meaning	Normal situation	Diagnostic significance
ACC	Switched +12 V	Voltage present when the ignition/accessory signal is active.	If ACC is missing while ACC is supposed to switch the radio, the system cannot switch on and off correctly.
BATT/B+	Permanent +12 V	Always present, even with the ignition off.	An interruption can cause memory loss, resets or start-up problems.

Signal	Meaning	Normal situation	Diagnostic significance
GND	Ground	Reliable connection to the vehicle ground.	A poor ground can cause a wide range of faults or intermittent faults.
CAN bus	Digital vehicle communication	Depends on the vehicle and cable set.	Can transmit the ignition status or other functions. However, not every function is controlled via the CAN bus, even if a CAN bus is present.
REVERSE	Reverse trigger	Only active when reverse gear is engaged, unless the signal is processed via the CAN bus.	A permanently active trigger signal can cause the camera image to stay on the screen.
ILLUMI	Illumination signal	Active according to the vehicle lighting/control.	Used for button/screen illumination if this function is not processed via the CAN bus.
AMP	Amplifier control	Only if required by the amplifier/interface.	In some installations, activates an external amplifier or factory amplifier.

9.1.2 Cable set with or without CAN bus

With a power cable **without CAN bus**, the signals arrive via separate wires. ACC switches the system on and off, BATT/B+ provides permanent power and GND provides the ground. Illumination and reversing are provided via ILLUMI and REVERSE.

With a power cable **with CAN bus**, the CAN-bus module can transmit vehicle signals digitally, such as the ignition status, illumination, the reverse signal, the steering wheel controls and other vehicle information. This does not apply to every cable set. A CAN-bus module therefore does not automatically mean that the system switches on and off via the CAN bus. In some vehicles, the basic power supply of the radio is still provided via ACC (switched +12 V), BATT/B+ (permanent +12 V) and GND (ground). The CAN-bus module then only handles additional vehicle functions.

Therefore, for every problem, first determine how your cable set controls the function concerned: via a separate wire or via the CAN bus. If the radio is switched via ACC, follow the checks for ACC, BATT/B+ and GND, even if a CAN-bus module is present. Only treat the CAN-bus module as part of the switch-on/switch-off diagnosis if the ignition status is actually processed via the CAN bus.

→ See also: 4.6 Type C – cable with CAN-bus module (p. 25), 5.4 Setting up the CAN bus in the system (p. 51)

9.2 Power and start-up

This part covers problems where the system does not switch on or off correctly, forgets settings, drains the battery or where the power plug does not fit. First check that the installation has been carried out according to the installation chapter: the correct power cable, all connections properly made and vehicle-specific settings correct. For power problems, preferably measure with a multimeter against a reliable ground point.

9.2.1 System does not switch on

Applies to: power cable without CAN bus, or with CAN bus where the radio is switched via ACC

Without CAN-bus ignition control, three basic connections determine the power supply: ACC (switched +12 V), BATT/B+ (permanent +12 V) and GND (ground). Check these in the order shown in the table.

Check	Solution
ACC provides switched power. This wire switches the system on when you switch on the ignition. Switch on the ignition and measure the voltage on the ACC wire. Correct: +12 V with the ignition on.	No +12 V? Check that the ACC wire is correctly connected to a switched +12 V power source in the vehicle.
BATT/B+ provides permanent power and ensures that settings and memory are retained. Measure the voltage on the BATT wire. Correct: constant +12 V, whether the ignition is on or off.	No +12 V? Check the connection to the vehicle's permanent +12 V supply.
GND provides the ground connection of the system. Is the ground wire securely attached, and is the ground point clean, bare and mechanically reliable? A connection can look good and still be electrically inadequate. If in doubt, use a multimeter to check that GND is properly connected to a reliable chassis or battery ground point.	No good ground? Clean the ground point. Reattach the ground wire to a suitable, bare metal ground point on the vehicle.
Power connector between the power cable and the radio: - Is the connector fully inserted into the radio? - Is the connector correctly locked? - Are there any loose, damaged, pushed-in or bent pins? - Has a wire come loose from the connector?	If necessary, reconnect the connector and check that it is firmly seated.
Fuses: the fuse of the system (10 A, in the device) or the power cable, and the relevant radio/accessory fuse of the vehicle.	If a fuse has blown, only replace it with a fuse of the same amperage. Have the system fuse replaced by your dealer or installer, always with a 10 A fuse. Do not open the device yourself.
If ACC, BATT/B+, GND, the fuses and the power connector are in order but the system still does not switch on, first check that the selected cable set matches the vehicle.	Use the correct cable set. See 4.3 Choosing the correct power cable (p. 18). If there is a CAN-bus module, determine whether it only handles additional functions or also transmits the ignition status. If the module transmits the ignition status, follow 9.2.2 System does not switch on (ignition status via CAN bus) (p. 92).

Multimeter readings at a glance:

Wire	Function	Correct value
ACC	Switched power	+12 V with the ignition on
BATT/B+	Permanent power	Constant +12 V
GND	Ground	Good connection to the vehicle ground

9.2.2 System does not switch on (ignition status via CAN bus)

Applies to: power cable with CAN bus where the ignition status is processed by the CAN-bus module, or if other CAN-bus functions also do not work

With a power cable with CAN bus, the CAN-bus module can transmit the vehicle's ignition status to the system. This does not apply to every cable set with CAN bus. In some vehicles, ACC still switches the radio, BATT/B+ supplies the permanent +12 V and GND provides the ground. The CAN-bus module is then an addition for functions such as steering wheel controls, illumination, the reverse signal or vehicle information. If the radio is switched via ACC, follow [9.2.1 System does not switch on](#) (p. 90).

Check	Solution
Main power: is the power plug fully inserted into the system? Is the vehicle-specific plug properly connected to the original vehicle plug?	If a connection is not secure, disconnect the connections and reconnect them firmly.
CAN-bus module: is the module correctly connected in the wiring harness? Is the module loose or connected to the wrong connection?	Connect the CAN-bus module correctly according to the wiring diagram. See 4.6.2 Wiring diagram (p. 26).
CAN-bus connection: is the correct CAN-bus plug connected to the system? Does the connection match the Type C wiring diagram?	If the plug is not seated properly, reconnect the CAN-bus plug.
Vehicle side: have all original vehicle plugs been correctly reconnected? Is every plug fully secured?	Re-secure any loose connections and check that all plugs are correctly fitted.
Fuses: the vehicle fuse and, if present, the power cable fuse.	Always replace a blown fuse with a fuse of the same rating.
Does the system still not switch on? Are you using the correct vehicle-specific power cable and CAN-bus module?	If all connections and fuses are correct but the system still does not switch on, contact your Davilon dealer. See 9.9 Problem not solved (p. 114).

→ See also: [4.3 Choosing the correct power cable](#) (p. 18), [4.14 Power cable wiring diagram](#) (p. 38)

9.2.3 System does not switch off automatically

Applies to: power cable without CAN bus, or with CAN bus where the radio is switched via ACC

Without CAN bus, the ACC wire controls automatic switching on and off. ACC should only receive voltage when the ignition is on. If the system stays on after you have switched off the ignition, check the points below step by step.

Check	Solution
ACC switches the system on and off via the vehicle ignition. Switch the ignition off completely. Does the voltage on the ACC wire drop out?	If voltage is still present with the ignition off, check that the ACC wire is not connected to a permanent power supply.

Check	Solution
BATT/B+ provides permanent power and retains settings such as saved stations and the clock. Does the BATT wire receive a constant +12 V?	Permanent power on BATT is normal. Only check that BATT is not connected to the ACC connection.
GND is required for correct operation. Is the ground wire (GND) securely attached? Is the ground point suitable and clean?	If the ground is not secure, re-secure the ground connection.
Intermediate connector (if present): is there a special intermediate connector in the power cable? Is it connected according to the wiring diagram? In some vehicles, this intermediate connector affects switching on and off.	If the system does not switch off when you remove the key, disconnect the intermediate connector (F). See 4.6 Type C – cable with CAN-bus module (p. 25).
Test again: switch off the ignition and remove the key.	Check that the system switches off automatically.

→ See also: [4.3 Choosing the correct power cable](#) (p. 18), [4.14 Power cable wiring diagram](#) (p. 38)

9.2.4 System does not switch off automatically (ignition status via CAN bus)

Applies to: power cable with CAN bus where the ignition status is processed by the CAN-bus module. If the cable set has a separate ACC connection that switches the radio, follow [9.2.3 System does not switch off automatically](#) (p. 92) first, even if a CAN-bus module is also present.

The CAN-bus module reads vehicle signals, including the ignition status, and passes the relevant signal on to the system. Check the points below step by step.

Check	Solution
CAN-bus module: this ensures that the system receives the correct vehicle information. Is the module correctly connected to the power cable and fully secured?	If the module is not properly connected, reconnect the CAN-bus module correctly.
CAN-bus connector: is it correctly fitted on the designated connection of the system?	If the connector is not seated properly, reconnect the CAN-bus connector.
Vehicle side: have all original vehicle plugs that you disconnected during installation been correctly reconnected? Are all plugs properly secured?	Re-secure any loose connections and check that all connections are correctly fitted.
Intermediate connector (if present): is there a special intermediate connector in the power cable? Is it connected according to the wiring diagram? In certain vehicles, this intermediate connector affects how the system switches off.	If the system does not switch off when you remove the key, disconnect the intermediate connector (F). See 4.6 Type C – cable with CAN-bus module (p. 25).
Test again: switch off the ignition, remove the key and lock the vehicle.	Check that the system switches off automatically.

→ See also: [4.6 Type C – cable with CAN-bus module](#) (p. 25), [4.6.2 Wiring diagram](#) (p. 26)

9.2.5 System forgets settings or saved stations

If the system forgets settings after you have switched off the ignition, the permanent power supply may not be provided correctly. BATT/B+ ensures that settings such as saved radio stations and the clock are retained when the ignition is off. If saved stations disappear, this memory power supply is usually being interrupted. An incorrect connection between ACC and BATT can also erase saved settings.

Check	Solution
BATT/B+ provides permanent power and retains saved settings. Does the BATT wire receive a constant +12 V, even with the ignition off?	No permanent voltage? Check the connection of the BATT wire.
ACC switches the system on when you switch on the ignition. Does the ACC wire only receive voltage when the ignition is on?	If ACC receives voltage constantly, check that ACC is not connected to a permanent power supply.
Are ACC and BATT/B+ swapped on the vehicle side? In some vehicles, the switched and permanent power supplies are in different positions in the vehicle plug than expected. Therefore, first measure which connection supplies permanent +12 V and which only supplies it with the ignition on.	Only if the measurement confirms that ACC and BATT/B+ are swapped: swap the designated ACC and BATT connections of the Davilon cable. See 4.14 Power cable wiring diagram (p. 38).
Is the system switched off completely, or is the power supply regularly interrupted?	Find the cause of the interruption. A repeatedly interrupted power supply can erase saved data.
Test the memory again: save a radio station or other setting, switch the ignition off completely and restart the system.	Check that the saved settings have been retained. Stations lost? Run a station scan again and save the stations you want again. See 8.2 FM and AM radio (p. 86).

! Caution: Never swap ACC and BATT/B+ on a trial basis. Only do this if you have established with a multimeter that the vehicle supplies switched and permanent power in the opposite positions, and the Davilon cable has a designated swap option for this purpose.

9.2.6 Battery drains after installation

If the vehicle battery drains after installation, first determine whether the system and the connected accessories actually go into rest mode after switching off. A black screen alone does not prove that all connected equipment has stopped drawing power. Check the points below step by step.

Check	Solution
Does the system switch off? Switch the ignition off completely, remove the key and lock the vehicle. Allow the vehicle the normal, vehicle-specific time to enter rest/sleep mode.	If the system remains active, check the power connection and the switch-off. Follow 9.2.3 System does not switch off automatically (p. 92) or 9.2.4 System does not switch off automatically (ignition status via CAN bus) (p. 93).

Check	Solution
Power cable without CAN bus: ACC ensures that the system only switches on when the ignition is on. Does ACC only receive voltage with the ignition on?	If ACC receives voltage constantly, check that the wire is not connected to a permanent power supply.
System with CAN-bus module: first determine the switch-off route. Is the ignition status processed via the CAN bus, or is the radio switched via ACC despite the CAN-bus module? • Via CAN bus: is the CAN-bus module correctly connected? • Via ACC: first check ACC as described in 9.2.3 System does not switch off automatically (p. 92). • Is the CAN-bus connector properly secured? • Are all connections on the vehicle side in order?	Reconnect any loose or incorrectly connected connections correctly.
Intermediate connector (if present): does the power cable have a special intermediate connector? Is it connected according to the wiring diagram? In certain vehicles, it affects how the system switches off.	If the system does not switch off when you remove the key, disconnect the intermediate connector (F). See 4.6 Type C – cable with CAN-bus module (p. 25).
Connected equipment: does anything remain active after the vehicle has been switched off? Consider an external amplifier, a camera interface or other connected modules.	Check the power supply of these components and make sure they switch off correctly.
Battery keeps draining? Do the system and the connected accessories appear to switch off correctly, but the battery still drains?	Have the quiescent current measured once the vehicle has fully entered rest/sleep mode. The required waiting time differs per vehicle. A correct quiescent current measurement shows which circuit or component continues to draw power.

9.2.7 Power plug does not fit

First check that you are using the correct power cable for the vehicle.

Check	Solution
Power cable: compare the original vehicle plug with the supplied Davilon power cable. Does the connector match in shape and connection?	Use the correct power cable for the vehicle. See 4.3 Choosing the correct power cable (p. 18).
Are you using the correct plug from the wiring harness?	Select the plug using the corresponding wiring diagram.
Is an adapter cable required? Some vehicles require an additional adapter or adapter cable.	Check that it is present and correctly connected.

Check	Solution
Does the plug still not fit?	Do not force the connector. Check the car make, model, year of manufacture and version. If you are unsure which cable or adapter is correct, contact your Davilon dealer.

Caution: Never modify the original vehicle wiring to make an incorrect connector fit.

9.3 Image and screen

For image problems, first determine whether the entire system works and only the display is abnormal. For camera problems, distinguish between three chains: camera power, video signal and the signal that activates camera mode (REVERSE or CAN bus).

→ **See also:** touchscreen does not respond or is inaccurate: [9.7.1 Touchscreen does not respond or is inaccurate](#) (p. 110).

9.3.1 Screen shows no image or appears faulty

If the system appears to switch on but the screen shows no image, first determine whether only the display does not work, or whether the entire system has not started.

Check	Solution
Is the system actually switched on? Look for sound, button illumination or other signs of operation.	If the entire system does not start, first carry out the checks in 9.2 Power and start-up (p. 90).
Does the system work, but the screen stays black?	Switch the system off completely and restart it.
Is the system demonstrably working while only the screen stays black, or are there visible defects on the screen?	Contact your Davilon dealer.

9.3.2 Screen is too dark or too bright

You can adjust the screen brightness manually to the light conditions in the vehicle.

Check	Solution
Brightness setting	1 Open Settings or Auto Set from the main menu. 2 Choose Display or Brightness to open the screen brightness settings. 3 Move the slider until the screen is clearly visible in the current light conditions. The setting is saved automatically. See 6.4.1 Brightness (p. 58).
Day or night use	If necessary, lower the brightness at night and increase it in bright daylight.

9.3.3 Button illumination does not work

Applies to: power cable without CAN bus, or if the illumination is controlled via a separate ILLUMI signal

First determine how your cable set controls the button illumination: via a separate ILLUMI signal or via the CAN bus. A CAN-bus module does not automatically mean that the illumination runs via the CAN bus. If the button illumination is not controlled via the CAN bus, ILLUMI can supply the illumination signal. Always check the wiring diagram of your cable set: a fitted ILLUMI wire is not used in the same way in every vehicle. If the illumination runs via the CAN bus, follow [9.3.4 Button illumination does not work \(illumination via CAN bus\)](#) (p. 97).

Check	Solution
Switch on the vehicle lights. Does the button illumination come on?	No: check the ILLUMI connection.
ILLUMI connection: is the ILLUMI wire connected to the designated lighting connection of the vehicle?	Connect the wire correctly.
Switching signal: does the ILLUMI wire receive voltage when the vehicle lights are on?	No voltage? Connect the wire to a connection that does supply the lighting signal.
Wiring diagram: what function and identification does the ILLUMI connection have, and which lighting signal does the vehicle actually use?	Connect the wire according to 4.14 Power cable wiring diagram (p. 38). Problem persists? Check the remaining connections according to the wiring diagram or contact your Davilon dealer.

9.3.4 Button illumination does not work (illumination via CAN bus)

Applies to: power cable with CAN-bus module where the illumination is controlled via the CAN bus

With a cable set with a CAN-bus module, the button illumination can be controlled via the CAN bus, but this depends on the vehicle and cable set. Therefore, first determine whether the illumination in your installation is controlled via the CAN bus or via a separate ILLUMI signal. With CAN control, you do not need to connect many separate signals manually.

Check	Solution
Switch on the vehicle lights. Does the button illumination respond?	No: continue with the next checks.
CAN-bus module: are the module and the CAN-bus connector correctly connected? Is the vehicle communication working correctly?	Reconnect the module and connector correctly.
Vehicle connectors: have all original plugs that you disconnected during installation been fully reconnected to the Davilon wiring harness?	Reconnect any loose plugs.
Does the button illumination still not work, although all connections are correct?	Refer to the CAN-bus functions in 5.4 Setting up the CAN bus in the system (p. 51) and 5.5 Original car settings via the CAN bus (p. 52). Check the remaining connections according to 4.14 Power cable wiring diagram (p. 38), or contact your Davilon dealer.

9.3.5 Reversing image stays on the screen

Applies to: system without CAN bus, or with CAN bus where the reverse signal is not processed via the CAN bus

Without CAN bus, the REVERSE signal wire activates the reversing image. According to the wiring diagram, this wire switches on the camera image as soon as the reverse signal is received. With an aftermarket camera, the REVERSE wire is connected to the +12 V connection of the reversing lights.

Check	Solution
Take the vehicle out of reverse gear. Does the camera image disappear?	No: check the REVERSE wire.
REVERSE wire: does it only receive voltage when reverse gear is engaged?	If +12 V is also present when the vehicle is not in reverse, the wire is connected to an incorrect or permanent power source.
Connection at the reversing lights: in a standard aftermarket installation, the trigger signal should come from the +12 V connection of the reversing lights.	Correct the connection: connect the REVERSE wire to the correct reverse signal so that +12 V is only present while reversing. See 4.15 Connecting a reversing camera (optional) (p. 40).

! Caution: Do not simply cut the REVERSE wire. First determine why it is permanently live and then correct the connection.

→ **See also:** [4.14 Power cable wiring diagram](#) (p. 38), [4.15 Connecting a reversing camera \(optional\)](#) (p. 40)

9.3.6 Reversing image stays on the screen (reverse signal via CAN bus)

Applies to: system with CAN bus where the reverse signal is processed via the CAN bus

In vehicles with a CAN-bus module, the reverse signal can be transmitted via CAN communication, but this differs per vehicle and cable set. If the reverse signal is processed via the CAN bus, a separate REVERSE wire is usually not required. If the signal is not processed via the CAN bus, follow [9.3.5 Reversing image stays on the screen](#) (p. 98).

Check	Solution
Separate REVERSE wire: is the reverse signal already processed via the CAN bus, and does a separate REVERSE wire connected in addition receive permanent voltage?	Correct the connection of this wire.
Are the CAN-bus module and the associated connectors correctly connected?	Reconnect the module and connectors correctly.
Does the vehicle have an original reversing camera? Is it correctly connected?	Check the connection according to 4.6.4 Version with original camera or factory amplifier (p. 28).
Are all physical connections correct, but the system stays in camera mode?	Contact your Davilon dealer to have the vehicle-specific connection checked.

9.3.7 Aftermarket reversing camera shows no image

With an aftermarket reversing camera, three functions must each be correct: the camera power supply, the video signal and the signal that activates camera mode (REVERSE or, depending on the vehicle, CAN bus). Check these three chains separately so you can see exactly where the problem arises. The Davilon 4 series uses the yellow RCA video input on the multifunction signal cable for the camera video signal.

Check	Solution
Video connection: is the camera's video plug fully connected to the yellow RCA connector (camera video in) of the multifunction signal cable?	Push the connector fully home. See 4.11 Multifunction signal cable (Wi-Fi, Bluetooth, camera) (p. 36).
Camera power: is the camera powered correctly? According to the installation instructions, the camera's positive goes to the wire labelled BACK or to the +12 V of the reversing lights (both are possible), and the negative to ground.	Connect the camera according to 4.15 Connecting a reversing camera (optional) (p. 40).
Reverse signal (without CAN bus): does the REVERSE wire receive the correct +12 V signal when reverse gear is engaged?	Connect the REVERSE wire to the reverse signal.
Video format: is the camera connected and powered but still not showing a correct image? Does the selected video format match the camera? The system supports NTSC, PAL and AHD 1080P / 25fps, among others.	Open the camera settings and select the correct video format for the connected camera. See 4.16 Setting up the reversing camera (p. 41) and 9.3.9 Camera image is black, distorted, blurred or displayed incorrectly (p. 100).

→ See also: [4.15 Connecting a reversing camera \(optional\)](#) (p. 40), [4.16 Setting up the reversing camera](#) (p. 41)

9.3.8 Original reversing camera shows no image

An original factory camera is connected differently from a standard aftermarket camera. Depending on the vehicle, a vehicle-specific adapter or interface is required. Original cameras are connected via the Type C connection.

Check	Solution
Vehicle-specific camera connection: are all original camera connections connected to the designated connections of the Davilon wiring harness?	Connect the camera according to 4.6.4 Version with original camera or factory amplifier (p. 28).
Camera interface or adapter (if present): is the supplied interface or adapter cable fully and correctly connected?	Reconnect the interface or adapter cable.
Video connection: does the camera signal ultimately arrive at the correct camera input of the system?	Connect the camera signal to the camera input.

Check	Solution
Camera settings: does the camera show no image or a distorted image?	Check the selected video format. See 4.16 Setting up the reversing camera (p. 41) and 9.3.9 Camera image is black, distorted, blurred or displayed incorrectly (p. 100).

9.3.9 Camera image is black, distorted, blurred or displayed incorrectly

If the camera activates but the image is not correct, the camera is not necessarily faulty. An incorrect video system or an incorrect camera setting can produce the same effect.

Check	Solution
Video format: open Settings > Reverse > Reversing System Selection and check the selected format.	Select the format the camera supplies, for example NTSC , PAL , AHD 1080P / 25fps or TVI 1080P / 25fps . See 4.16 Setting up the reversing camera (p. 41).
Camera specifications: which video signal does the camera actually supply?	Compare the selected format with the camera signal and match them.
RCA connections: are they fully connected? Is the video cable damaged or pinched?	Reconnect the connections or replace the damaged cable.
Mirror image and other settings, such as guide lines and switch-on delay	Adjust these in the same menu.

9.4 Sound

First check whether the problem occurs with all audio sources. If only one source is affected, the cause is probably not in the entire speaker or amplifier chain. With a factory amplifier, the vehicle-specific connection is decisive.

→ **See also:** poor sound quality or poor intelligibility during calls: [9.6.2 Poor call quality, or Bluetooth audio does not work properly](#) (p. 106).

9.4.1 No sound from the speakers

If the system starts but you hear no sound, this can have various causes. Check the basic connections first before changing any settings.

Check	Solution
Does the problem occur with all audio sources? Test at least two sources, for example FM and Bluetooth/USB.	If one source works, first check the settings and connection of the source that does not work. If there is no sound from any source, continue with the general audio and amplifier checks below.
Mute: is the system muted?	Switch off mute and increase the volume. This lets you check whether there really is no sound.
Speaker connections: are the speaker cables and power connectors connected according to the wiring diagram?	Connect them correctly. See 4.14 Power cable wiring diagram (p. 38).

Check	Solution
Power: are BATT (permanent power), ACC (switched power) and GND (ground) correctly connected? An incorrect power connection can prevent the system from working correctly.	Follow 9.2.1 System does not switch on (p. 90). See also 4.3 Choosing the correct power cable (p. 18).
System fuse (10 A, in the device)	Have a blown fuse replaced by your dealer or installer, always with a fuse of the same rating (10 A). Do not open the device yourself.
Does the vehicle have an original amplifier? With a factory amplifier, an additional connection or interface may be required for the sound to work correctly.	Follow 9.4.2 No sound in a vehicle with a factory amplifier (p. 101). Refer to the vehicle-specific connection instructions or contact your Davilon dealer.

→ See also: [4.3 Choosing the correct power cable](#) (p. 18), [4.14 Power cable wiring diagram](#) (p. 38)

9.4.2 No sound in a vehicle with a factory amplifier

Some vehicles have an original amplifier that is part of the factory audio system. The system then does not drive the sound directly via its own speaker outputs.

Check	Solution
Does the vehicle have an original amplifier, for example with a premium audio system?	No: follow 9.4.1 No sound from the speakers (p. 100).
Amplifier connection: is the required connection for the original amplifier correctly connected?	Connect the amplifier connection correctly.
AMP control: how is the factory amplifier activated in this vehicle configuration? This can be via an AMP/remote signal or via vehicle-specific communication, depending on the vehicle and interface.	Follow the vehicle-specific wiring diagram or the interface instructions.
Cable variant: vehicles with an original camera and/or factory amplifier may require a specific Type C connection or interface.	See 4.6.4 Version with original camera or factory amplifier (p. 28).



Warning: Never connect +12 V to an unknown wire at random.

9.4.3 No sound from parking sensors, indicators or seat belt warning

In some vehicles, certain audio signals are normally played through the original car speakers, for example the sound of the indicators, the seat belt warning or the parking sensors. In many vehicles, the car's CAN-bus system controls these signals. After replacing the original car radio with a Davilon system, they are no longer audible with some systems. An example of the CAN-bus decoder and its connection can be found in [4.7](#)

Connecting the external speaker (p. 31).

Check	Solution
Original car radio: if possible, reconnect the original car radio. Are the signals audible then? Test, for example, the indicators, seat belt warning and parking sensors, insofar as your vehicle has these functions.	Yes: the cause lies in the connection of the Davilon system. Continue with the next check.
CAN-bus decoder: do the signals work with the original car radio, but no longer after installing the Davilon system? Is the CAN-bus decoder correctly connected? This decoder sends certain vehicle information from the CAN-bus system to the system.	Connect the CAN-bus decoder correctly.
Is an external speaker required? With certain Davilon systems, the CAN-bus decoder cannot play the signals through the original car speakers. A supplied external speaker may then be required.	If an external speaker is supplied with your system, connect it according to 4.7 Connecting the external speaker (p. 31).
Test the audio signals again.	After connecting the external speaker, check that the signals are audible again.

! Caution: This problem only occurs with certain Davilon systems and vehicle configurations. Therefore, not every system is supplied with an external speaker.

9.4.4 Sound balance is incorrect

If the sound is not distributed properly across the speakers, the balance or fader setting is probably incorrect.

Check	Solution
Balance: is the sound fully to the left, right, front or rear?	Adjust the balance. See 6.5.2 Sound balance (balance and fader) (p. 60).
Fader: distribution between front and rear speakers	Adjust the fader.
Equaliser	Adjust the equaliser settings to your preference. See 6.5.1 Equaliser (p. 59).

9.4.5 Sound drops out or sometimes does not work

If the sound drops out temporarily, check the physical connections first.

Check	Solution
Power connectors: are all connectors fully connected?	Reconnect any loose connectors.
Speaker wiring: are there any loose connections or damaged cables?	Repair loose connections and replace damaged cables.

Check	Solution
External equipment: does the vehicle have an original amplifier or an additional audio interface? Is it correctly connected?	Connect the amplifier or interface correctly.
Settings: is an incorrect audio setting or mute function active?	Correct the setting. See 6.5 Sound: equaliser and sound balance (p. 59).

9.5 Radio reception

Reception depends on the entire antenna chain: the vehicle antenna, any adapter, the antenna power supply and the connection to the system. Preferably assess the reception at the same location as a reference system.

9.5.1 FM radio does not receive any stations

If the FM radio does not receive any stations, first check that the antenna is correctly connected and that the system is using the correct source.

Check	Solution
Antenna connection: is the original vehicle antenna or the supplied antenna adapter correctly connected to the antenna input of the system?	Connect the antenna fully.
Antenna adapter: vehicles with an original antenna may require an adapter. Is the adapter used suitable for the vehicle and for the connection of the system?	Use the correct adapter. See 9.5.4 Antenna connector does not fit (p. 104).
Antenna power supply: some vehicles have an active antenna that requires power. Is this power supplied correctly?	Make sure the antenna power is supplied correctly.
Station list	Run an automatic station search again via the radio menu. See 8.2.1 Searching for stations (p. 86).
Still no reception?	If possible, test with a different antenna or antenna cable. This rules out a faulty component.

→ See also: [8.2 FM and AM radio](#) (p. 86)

9.5.2 FM radio has poor reception

Poor reception can be caused by a weak radio signal, an incorrect antenna connection or a problem with the antenna installation.

Check	Solution
Antenna connection: is the antenna plug fully secured and not loose?	Reconnect the plug fully.

Check	Solution
Antenna adapter: is the adapter suitable for the vehicle and the original antenna?	Use the correct adapter.
Routing of the antenna cable: does the cable run alongside power cables or other electrical wiring?	Keep the antenna cable separated from other wiring as much as possible. This reduces interference.
Compare the reception at the same location with the original radio or another radio system.	If reception is also poor there, the limited reception is due to the signal strength at that location.

9.5.3 Radio produces noise or interference

Noise is usually caused by a poor antenna connection, electrical interference or an incorrect ground connection.

Check	Solution
GND/ground: is the ground connection of the system correct and secure?	Re-secure the ground connection.
Antenna cable: is the cable fully connected? Is it damaged or pinched?	Reconnect the cable or replace it.
Cable routing: do antenna cables run together with power cables or other electrical wiring?	Keep antenna cables separated from other wiring to reduce interference.
External equipment: do connected amplifiers, adapters or other modules cause interference?	Check that this equipment is correctly connected.

9.5.4 Antenna connector does not fit

Vehicles use different antenna connections. A suitable adapter may be required to connect the original vehicle antenna.

Check	Solution
Type of antenna connector: compare the original antenna plug of the vehicle with the antenna input of the system.	Only use an antenna adapter that is suitable for your vehicle version.
Connection: is the adapter fully connected to both the vehicle antenna and the system?	Connect the adapter fully at both ends.
Still no matching connection?	Check the vehicle type and, if in doubt, contact your Davilon dealer.

9.5.5 DAB+ does not work or has no reception

If you are using a DAB+ module, both the module and the antenna connection must work correctly.

Check	Solution
DAB+ module: is the module correctly connected to the system?	Reconnect the module.
Antenna connection: is the DAB+ antenna correctly connected and positioned according to the instructions?	Connect the antenna and position it according to the instructions.
DAB+ settings: have the correct source and settings for DAB+ been selected?	Select the correct source and settings. See 8.3 DAB+ digital radio (p. 87).
Station list	Run a new station scan.

9.5.6 Saved radio stations disappear

If saved stations are being lost, this is usually because the memory power supply is being interrupted. BATT ensures that settings and memory are retained when the ignition is off.

Check	Solution
BATT: is the permanent power supply correctly connected?	Follow the checks in 9.2.5 System forgets settings or saved stations (p. 94).
ACC and BATT: are they connected incorrectly? Saved settings can then be lost.	Measure and correct as described in 9.2.5 System forgets settings or saved stations (p. 94).
Is the system switched off correctly, or is the power supply regularly interrupted? Saved data can then be lost.	Find the cause of the interruption. See 9.2 Power and start-up (p. 90).
Save stations again	Run a station scan again and save the stations you want again. See 8.2.2 Saving stations (p. 87).

→ See also: [9.2 Power and start-up](#) (p. 90), [8.2 FM and AM radio](#) (p. 86)

→ See also: no radio during CarPlay or Android Auto: [9.6.6 No radio during CarPlay or Android Auto](#) (p. 109).

9.6 Connections

First determine whether the connection is wired or wireless. Then check in a fixed order: connection app, phone settings, cable or Bluetooth/Wi-Fi, and finally the multifunction signal cable.

9.6.1 Bluetooth does not connect or the connection drops

If Bluetooth does not work properly, this may be due to incorrect pairing, an interrupted connection or a problem with the Bluetooth connection between the phone and the system.

Check	Solution
Bluetooth pairing	Delete the existing pairing on both the phone and the system. Then connect and pair again. See 7.1.1 Pairing a phone (p. 70).
Distance to the system: a large distance or obstacles between the phone and the system can affect the connection.	Keep the phone close to the system while pairing.
Other Bluetooth devices that try to connect to the phone automatically	Switch them off temporarily.
Temporary fault	Restart the phone and the system and try to connect again.
Does Bluetooth keep causing problems? Is the multifunction signal cable correctly connected? This connection supports Bluetooth and Wi-Fi, among other things.	Connect the signal cable correctly. See 4.11 Multifunction signal cable (Wi-Fi, Bluetooth, camera) (p. 36).

9.6.2 Poor call quality, or Bluetooth audio does not work properly

Bluetooth is connected, but calls or audio do not work properly? Poor call quality is usually caused by the position or connection of the microphone.

Check	Solution
Bluetooth audio setting: are both media audio and the phone function enabled for the paired phone?	Enable both.
Microphone connection: is the external microphone correctly connected?	Connect the microphone to the MIC input. See 4.10 Video cable and RCA connections (p. 34).
Position of the microphone	Preferably position the microphone: • near the A-pillar; • at speaking height; • facing the driver; • not behind trim or other obstacles. See 7.1.4 Setting the microphone sensitivity (p. 72).
Volume: both the volume of the system and the volume of the phone	Set both volumes correctly.
Bluetooth connection	Delete the Bluetooth pairing and connect the phone again.

9.6.3 Apple CarPlay does not start or the phone is not recognised

If Apple CarPlay does not start, the phone is not recognised or the connection does not work correctly, check

the points below.

Check	Solution
Connection app: depending on the model, you start CarPlay via a pre-installed connection app, such as ZLink, TLink, TLink5 or X-Car. Have you opened the correct app and selected the correct connection mode? Is the CarPlay icon at the bottom right of the screen selected?	Select CarPlay. Do not use MirrorLink or Huawei Connect (HC): these are intended for other connection methods and do not start a correct CarPlay connection. See 7.2.2 Choosing the correct connection mode (p. 74).
Wireless: do both Bluetooth and Wi-Fi remain enabled on the iPhone? Is the iPhone correctly paired with the system?	If necessary, delete the existing Bluetooth and Wi-Fi pairing and connect again.
Permissions on the iPhone: is CarPlay allowed and Siri switched on?	Allow CarPlay and switch on Siri. When prompted, also grant the system permission for: • Bluetooth; • contacts; • notifications; • wireless connections. Without these permissions, CarPlay works with limited functionality.
Wired (USB): are you using an original or certified USB cable that is suitable for data transfer? A damaged or incorrect USB cable can prevent the phone from being recognised.	Do not use a cable intended for charging only. Replace a damaged cable. See 7.3.2 Connecting CarPlay via USB (p. 76).
Is an existing CarPlay pairing causing problems?	1 Delete the Bluetooth pairing and the saved device from the system. 2 If necessary, on the iPhone go to Settings > General > CarPlay. 3 Select the connection and choose to forget it. 4 Restart the iPhone and the system. 5 Set up CarPlay again. See 7.3 Apple CarPlay (p. 75).
Multifunction signal cable: do CarPlay, Bluetooth or Wi-Fi keep causing problems? This cable supports the Bluetooth and Wi-Fi functions of the system, among other things.	Connect the cable correctly. See 4.11 Multifunction signal cable (Wi-Fi, Bluetooth, camera) (p. 36).
Does CarPlay drop out during use?	Check that Bluetooth and Wi-Fi remain active and that the phone does not automatically connect to another device. Restart the phone and the system. If necessary, delete the existing pairing and connect again. See 9.6.5 CarPlay or Android Auto disconnects during use (p. 108).
Does CarPlay still not start? Does the system have the correct software version?	Update the software if necessary. See 6.11 Installing updates (p. 67). If necessary, take a photo of the error message and note down: • the model number of the Davilon system; • the type of phone; • the connection method (USB or wireless). Have this information ready when you contact Davilon customer service. See 9.9 Problem not solved (p. 114).

9.6.4 Android Auto does not start or the phone is not recognised

If Android Auto does not start, is not recognised or does not connect, first determine whether you are trying to connect wired or wirelessly. Then check the phone, the connection and the app and settings of the system, in the order below.

Check	Solution
Wired (USB): are you using a high-quality USB data cable, without hubs or unnecessary extension cables? A cable may charge the phone and still be unsuitable for reliable data transfer.	Use a suitable data cable. If Android Auto worked before and the connection now drops out, also test with another suitable USB cable. See 7.4.3 Connecting Android Auto via USB (p. 79).
Android Auto settings: is Android Auto available and allowed on the phone? In modern Android versions, Android Auto is built into the operating system. Does the phone grant permission for the connection with the system?	Allow Android Auto and the connection to the system on the phone.
Wireless: does the phone support wireless Android Auto? Do Bluetooth, Wi-Fi and location services stay switched on?	Pair the phone with the system via Bluetooth the first time. Leave Bluetooth, Wi-Fi and location services switched on during configuration. See 7.4.4 Connecting Android Auto wirelessly (p. 79).
Software updates: does the phone have the latest version of Android? Is Android Auto up to date?	Update the phone and Android Auto.
Existing connection	Delete the existing Bluetooth and Android Auto pairing. Then connect to the system again.

→ See also: [9.6.5 CarPlay or Android Auto disconnects during use](#) (p. 108)

9.6.5 CarPlay or Android Auto disconnects during use

If CarPlay or Android Auto disconnects during use, first check the connection between the phone and the system.

Check	Solution
Wired: is the USB cable damaged? Is the cable properly secured or is it making a loose contact?	Connect the cable properly or replace it.
Wireless: do Bluetooth and Wi-Fi remain enabled on the phone? Does the phone stay connected to the system?	Keep Bluetooth and Wi-Fi switched on.
Does the phone automatically connect to another device?	Prevent the phone from connecting to another device.
Connection	Disconnect the current CarPlay or Android Auto connection and connect to the system again. If necessary, delete the existing pairing.
Does the connection keep dropping?	Restart the phone (and the system if necessary) and try to connect again.

- See also: 9.6.3 Apple CarPlay does not start or the phone is not recognised (p. 106), 9.6.4 Android Auto does not start or the phone is not recognised (p. 108)

9.6.6 No radio during CarPlay or Android Auto

When CarPlay or Android Auto is active, the phone can take over the audio output. It then seems as if the radio is not working.

Check	Solution
Active audio source	Open the system's source menu and switch back to the radio function if you want to use FM or DAB.
Phone connection: does the radio work without a phone connection?	If necessary, temporarily disconnect CarPlay or Android Auto and then check again whether the radio works.

- i** **Tip:** A silent radio does not automatically mean that the radio is faulty. Smartphone projection can take over the audio source. Deliberately switch back to FM/DAB or temporarily disconnect the projection to test the radio separately.

9.6.7 Wi-Fi connection is poor or drops

If the system's Wi-Fi connection is poor or drops regularly, this can also disrupt functions such as wireless connections with smartphones.

Check	Solution
Wi-Fi connection: open the system's Wi-Fi settings. Is the correct connection active?	Select the correct connection. See 7.6 Connecting to Wi-Fi (p. 81).
Signal strength: is the Wi-Fi signal strong enough?	If possible, move the hotspot or phone closer to the system.
Sources of interference: do other wireless devices affect the connection?	Test the connection again without other sources of interference nearby.
Multifunction signal cable: is it correctly connected? This cable supports the Wi-Fi function of the system, among other things.	Connect the cable correctly. See 4.11 Multifunction signal cable (Wi-Fi, Bluetooth, camera) (p. 36).

9.7 Controls

This part covers the most common problems with the controls: steering wheel controls, remote control, touchscreen and apps. If a control function does not respond correctly, this may be due to an incorrect connection, incorrect settings, a programming error or a problem with the communication between the vehicle and the system. First check that all connections are properly made and that vehicle-specific settings are set correctly. Then check whether the control signals reach the system via the wiring harness or the CAN-bus module. Only then adjust settings or button assignments.

- **See also:** button illumination does not work: [9.3.3 Button illumination does not work](#) (p. 97) and [9.3.4 Button illumination does not work \(illumination via CAN bus\)](#) (p. 97).

9.7.1 Touchscreen does not respond or is inaccurate

If the touchscreen does not respond properly or touches are not registered correctly, this may be due to dirt, incorrect calibration or a temporary system fault. Calibration has a separate procedure.

Check	Solution
Is there dirt, grease, moisture or fingerprints on the screen that affect operation?	Carefully clean the screen with a soft, clean, dry cloth. Remove all dirt, grease and moisture.
Protective film: is there a film on the screen? An unsuitable or damaged film can affect operation.	Remove or replace the film.
Temporary fault	Restart the system. Then check whether the touchscreen responds normally again.
Does the screen still not respond accurately?	Calibrate the touchscreen. During this procedure, several calibration points appear on the screen, which you touch one by one. See 6.8.1 Calibrating the touchscreen (p. 64).
Does the touchscreen itself work while on-screen buttons such as Home, Back or Volume do not respond correctly?	Calibrate the on-screen buttons separately. See 6.8.2 Calibrating the on-screen buttons (p. 65).
Are you unable to calibrate, or does the screen no longer respond at all?	Contact your Davilon dealer.

- **See also:** [6.8.1 Calibrating the touchscreen](#) (p. 64), [6.8.2 Calibrating the on-screen buttons](#) (p. 65), [9.3 Image and screen](#) (p. 96)

9.7.2 Steering wheel controls do not work

If the steering wheel controls do not respond, this may be due to an incorrect connection, an incorrect vehicle setting or a problem with the signal route. With some cable sets, the steering wheel controls run via the CAN bus; with others, via separate steering wheel signals. First determine which method applies to your vehicle and cable set.

Check	Solution
Wiring harness: are all original vehicle plugs correctly connected to the Davilon power cable?	Reconnect any loose plugs. See 4.3 Choosing the correct power cable (p. 18).
Via CAN bus (if present): is the CAN-bus module correctly connected and fully connected to the wiring harness?	Connect the module correctly. See 5.4 Setting up the CAN bus in the system (p. 51).
Via separate steering wheel control wires: are the signal connections made according to the wiring diagram?	Connect the signal wires according to 4.14 Power cable wiring diagram (p. 38).

Check	Solution
Steering wheel settings: open the steering wheel control settings. Are the functions assigned to the correct buttons?	Program the steering wheel controls again: if necessary, clear the current settings and program the buttons again according to the programming procedure. See 5.1.1 Assigning steering wheel buttons manually (p. 43).
Do the steering wheel controls still not work? Are you using the correct vehicle-specific wiring harness and CAN-bus module? Check again that all connections have been made correctly.	Does the function still not work? Take clear photos of the complete wiring harness, the CAN-bus module (if present), the vehicle plugs and the connection to the system. Send them to your Davilon dealer or customer service.

→ See also: [5.1 Steering wheel controls](#) (p. 43), [5.5.1 Common problems](#) (p. 53)

9.7.3 Steering wheel controls work partially or perform the wrong functions

If some steering wheel buttons work but others do not, or they perform the wrong functions, the button assignment or programming has probably not been set correctly.

Check	Solution
Button assignment: is each steering wheel button linked to the correct function? Do the assigned functions match the buttons on the steering wheel?	Correct the assignment. See 5.1.1 Assigning steering wheel buttons manually (p. 43).
Is the assignment still wrong?	If necessary, clear the existing programming and program the steering wheel controls again.
After programming, test all functions again: • volume up/down; • next/previous track; • mute; • change source.	If a function does not work, program that button again. If nothing works, follow 9.7.2 Steering wheel controls do not work (p. 110).

9.7.4 Remote control does not work

If the supplied remote control does not respond, first check the battery, the operation of the remote control and the connection with the system.

Check	Solution
Battery: a weak battery reduces the range.	Replace the battery if the remote control does not respond.
Line of sight: are there obstacles between the remote control and the receiver?	Point the remote control directly at the system's receiver. Make sure there are no obstacles in between.
Distance	Use the remote control within the normal range of the system. Test the operation at a short distance.
Does the remote control still not work?	Check whether it needs to be paired again. If possible, test with another remote control to rule out a defect.

9.7.5 Apps freeze or respond slowly

If apps freeze, respond slowly or close unexpectedly, this may be due to a temporary system fault, a problem with the app or insufficient available system resources.

Check	Solution
Problem in a single app	Close the app completely. Restart the app and check whether the problem has been solved.
Temporary software fault	Restart the system. A restart can solve temporary software problems.
Connection: does the app need internet or a phone connection? Do the Bluetooth connection, the Wi-Fi connection and the phone's mobile internet connection work?	Restore the connection. See 9.6.1 Bluetooth does not connect or the connection drops (p. 106) and 9.6.7 Wi-Fi connection is poor or drops (p. 109).
Updates: is the app you are using the latest version? Is the connected phone up to date?	Update the app and the phone. See 7.5.2 Updating the app (p. 80).
Do several apps keep freezing or responding slowly?	Contact your Davilon dealer.

→ See also: [7.5 Managing the connection app](#) (p. 80)

9.8 GPS and media

This part covers the most common problems with the GPS function and media playback: GPS does not work correctly, files do not play, or a USB stick or SD card is not recognised. First check that all connections and settings from the previous chapters have been carried out correctly. Then determine whether the connected component is recognised. Next, depending on the function, check the positioning, connection, formatting or file type.

9.8.1 No or poor GPS signal

If the system receives no GPS signal or the location is not determined correctly, first check the connection and positioning of the GPS antenna. The antenna needs a clear view to find satellites. If metal parts or heat-reflective or metallised glass block the signal, reception is poorer or it takes longer to determine the location.

Check	Solution
GPS antenna connection: is the antenna fully inserted into the GPS connection of the system? With a loose connection, the system receives no GPS signal.	Connect the antenna fully. See 4.9 Cables and accessories (p. 33).
Positioning: does the antenna have as clear a view of the sky as possible?	Position the antenna: • on top of or behind the dashboard; • horizontally; • not covered by or under metal parts; • not behind heat-reflective or metallised glass; • not in a position where the GPS signal is shielded.

Check	Solution
First installation, or has the system not been used for a long time?	Give the system time. It may then take a few minutes before the first GPS position is determined.
Does GPS still not work? Is the GPS antenna damaged?	Check the antenna for damage. If possible, test with another GPS antenna.

9.8.2 GPS position is inaccurate

If navigation works but the displayed location is incorrect, check the GPS reception and the settings.

Check	Solution
GPS signal: does the system receive enough satellites? A weak signal results in an inaccurate position.	Improve the reception. See 9.8.1 No or poor GPS signal (p. 112).
Positioning: is the GPS antenna correctly positioned? Incorrect positioning affects accuracy.	Reposition the antenna.
Navigation settings: are you using the correct navigation app? Are the system's location services switched on?	Select the correct app and switch on location services.
Temporary fault	Restart the system and then check whether the GPS position is displayed correctly.

9.8.3 USB device is not recognised

If the system does not recognise a USB stick or other USB device, first check the connection, the file system and the compatibility of the device.

Check	Solution
USB connection: is the stick fully inserted into the correct USB port? Is the connection secure?	Reinsert the stick.
File system: is the stick correctly formatted? File systems other than FAT32 may not be supported.	Preferably use FAT32 formatting.
Is the problem with the stick itself?	If possible, test with another USB stick.
Files: are the stored files supported and undamaged?	See 9.8.5 Media files do not play (p. 114) and 8.1.4 Supported formats (p. 86).
USB cable or connection: is it damaged?	If possible, test another USB connection.

9.8.4 SD card is not recognised

If an SD card is not displayed or the system cannot read the card, check the insertion, the file system and the

condition of the card.

Check	Solution
Insertion: is the SD card fully and correctly inserted into the SD card slot? Is the card properly seated?	Reinsert the card.
File system: is the card correctly formatted?	Preferably use FAT32 formatting.
Is the problem with the card? A damaged or faulty SD card can prevent the system from recognising the card.	If possible, test with another SD card.
Contacts: are the card's contacts clean and undamaged?	Clean the contacts or replace the card.

9.8.5 Media files do not play

Applies to: USB stick or SD card is recognised

If files do not play although the USB stick or SD card is recognised, check the file format and the stored files.

Check	Solution
File type: is the audio or video file supported and undamaged?	Use a supported, undamaged file. See 8.1.4 Supported formats (p. 86).
Is the problem limited to one specific file?	Try playing a different audio or video file.
Storage location: are the files stored directly on the USB stick or SD card, and are they saved correctly?	Save the files again.
Is the problem with the storage device?	Test with another USB stick or SD card.

9.9 Problem not solved

If the problem persists after you have carried out all relevant checks, do not make random changes to the vehicle wiring, CAN-bus settings, camera triggers or factory settings. First collect the information needed to assess the installation in a targeted way. This prevents unnecessary changes and speeds up the technical diagnosis.

- Davilon model and, if visible, the software version.
- Car make, model, year of manufacture and version.
- Type of power cable: Type A, Type B or Type C with CAN-bus module.
- Which checks from this chapter you have carried out and what the result was.
- For power problems: the measured values of ACC, BATT/B+ and GND, if applicable.
- For installation, camera or steering wheel control problems: clear photos of the complete wiring harness, connectors and relevant connections.
- For CarPlay or Android Auto: phone type, wired or wireless, and a photo of any error message.

Have this information ready when you contact your Davilon dealer or Davilon customer service. This makes it easier to determine whether the cause lies in the installation, the configuration, vehicle compatibility or the system itself.

Chapter 10

Maintenance and disposal

Keep the Davilon system clean, leave repairs to a specialist, store and transport the system safely, and dispose of it correctly at the end of its service life.

10.1 Cleaning

The screen attracts dust. Therefore, clean it regularly.

- 1 Always switch off the system before you start cleaning.
- 2 Wipe the screen and the housing with a soft, dry cloth. Do not apply excessive pressure to the screen. A soft, dry cloth is sufficient for light marks.
- 3 For stubborn stains, use a cloth lightly moistened with a mild cleaning agent.
- 4 Then wipe dry with a dry, soft cloth.

! **Caution:** Never immerse the system or the remote control in water or any other liquid. Rinsing with water is prohibited: moisture can leak into the electrical circuit and cause faults. Also avoid any other contact with water and liquids during cleaning. Moisture can get inside and damage electronic components.

! **Caution:** Never use abrasive materials or aggressive cleaning agents, such as solvents, alcohol or other agents that can damage the surface or the protective coating.

Do not let children clean the system.

10.2 Maintenance and replacing the fuse

The system does not require regular maintenance. However, check it regularly for damage.

The system and the remote control contain no user-serviceable parts. You may only replace the batteries of the remote control yourself (see [2.6 Remote control battery](#) (p. 10)).

! **Warning:** Never dismantle, open or modify the system yourself. It contains electronic components that can cause an electric shock. Never attempt to repair or modify the system yourself either. Repairs or modifications by persons without the right knowledge and experience can cause an electric shock, personal injury or damage to the device.

- Always have inspections, repairs and modifications carried out by an approved installer or authorised service partner. See also [11.4 Expertise centre](#) (p. 120).
- If the housing has been opened, the warranty may be void.

10.2.1 Replacing the fuse

The system has a 10 A fuse in the device (screen).

- If the system fuse needs to be replaced, have this done by your dealer or installer. Do not open the device yourself.
- Always use a fuse with the same rating (10 A).
- If the problem persists after the fuse has been replaced, do not have the fuse replaced again. First have your dealer check the cause and further inspect and repair the system.

Warning: A fuse with the wrong rating can cause damage to the device, faults or fire.

→ See also: 9.2 Power and start-up (p. 90)

10.3 Storage and transport

- Clean the system carefully before storing it for a long period (see 10.1 Cleaning (p. 116)).
- Store the system and the remote control in a dry, dust-free place. Protect them from direct sunlight and moisture.
- Do not store them at extremely high or low temperatures. This can cause permanent damage to electronic components and affect the operation of the device.
- Always keep the system, the remote control, cables and accessories out of the reach of young children.
- Remove the coin cell battery or batteries from the remote control if you will not be using it for a long period. This prevents leakage or damage to the remote control.
- During transport, protect the system against vibration, shocks and impacts. This prevents damage.

10.4 Disposal and recycling

10.4.1 Product



Crossed-out wheeled bin: do not dispose of with household waste

This product complies with the European WEEE Directive 2012/19/EU (Waste Electrical and Electronic Equipment). The crossed-out wheeled bin symbol means that you must not dispose of the product with normal household waste at the end of its service life.

You are responsible for disposing of the product correctly at the end of its service life. Hand in the product:

- at an approved collection point for the recycling of electrical and electronic equipment, or
- at the retailer, when you buy a new, equivalent device.

Proper separation and processing protect the environment and public health and allow materials to be reused. Incorrect disposal can lead to environmental damage and legal penalties. For more information about recycling and collection systems, contact your local waste collection service or the shop where you bought the product.

10.4.2 Batteries



Do not dispose of
batteries with household
waste



Hand in batteries for
recycling

Depending on the type, the remote control contains one or more coin cell batteries. These batteries must not be disposed of with normal household waste. Batteries may contain harmful substances.

- 1 Always remove the batteries from the remote control before disposing of it.
- 2 Hand in empty batteries at a battery collection point. Follow the local regulations for small chemical waste / hazardous waste, so that the batteries are processed safely.

10.4.3 Packaging



Hand in packaging for reuse and recycling

Dispose of packaging material, such as plastic bags and film, in a responsible and environmentally friendly way. Do not dispose of these materials with normal household waste, but hand them in through the collection systems for reuse and recycling. Always follow the instructions and markings on the packaging.

Chapter 11

Warranty and legal information

This chapter explains how long the warranty lasts and what it excludes, how to report a complaint or return a product, and which legal terms apply to the Davilon system.

11.1

Warranty

The warranty period is 2 years from the date of purchase. Keep your proof of purchase.

The following cases are not covered by the warranty:

- Changes to the operating system and software from unofficial sources. These can cause faults, data loss or permanent damage. They are also not covered by product liability.
- Damage to the supplied screen protector. Depending on the model and distribution, it is supplied to protect the product during transport.
- Damage caused by incorrect installation or by modifications to the wiring, CAN bus or vehicle electronics carried out by a non-specialist.
- Damage after the housing has been opened; the warranty may then be void.

i **Tip:** Keep the original packaging. You can use it for shipping or warranty claims.

11.2

Complaints

- If the system does not fit your vehicle, or you are having problems with the installation, contact us. Our specialists can guide you through the installation remotely.
- If you received the wrong product or are dissatisfied for another reason, contact customer service. We will work with you to find a suitable solution.

You can contact Davilon through your Davilon dealer or at info@davilon.eu.

11.3

Return conditions

The following conditions apply to returning Davilon products. Your Davilon dealer can provide the full conditions.

- Return items in their original packaging where possible.
- The products must not show any signs of use.

- You may inspect and test the product, for example by connecting it briefly. Modifications to the wiring are not permitted.
- If you are not sure whether you want to keep the product, do not install it permanently. Screws can leave permanent marks in the screw holes.
- Do not remove any protective materials from the product or the accessories.
- Do not remove the adhesive strip from the GPS antenna or from other supplied accessories.
- Pack the item securely.

For all other return conditions, your dealer's general terms and conditions apply.

11.4 Expertise centre

For specialist support and professional installation, Davilon works with an official expertise centre: Cartop Automotive in Gouda. This centre is familiar with the Davilon 4 series, CAN-bus configurations and vehicle-specific applications. Cartop Automotive can help with:

- professional fitting and installation of Davilon car radios;
- configuration and diagnosis of CAN-bus systems;
- resolving faults and error messages;
- advice on vehicle compatibility and required accessories;
- updates, system recovery and optimisation of settings;
- complex questions about original functions, such as steering wheel controls, parking sensors and vehicle settings.

If you prefer to have the installation carried out by a specialist, preferably contact Cartop Automotive.

Detail	Cartop Automotive
Type of business	Garage (automotive electrical parts)
Address	Meridiaan 42, 2801 DA Gouda (Netherlands)
Telephone	+31 85 760 0558
Website	cartopautomotive.nl
Opening hours	See the Cartop Automotive website.

Caution: Only have modifications to the wiring, CAN bus or vehicle electronics carried out by a qualified installer. Damage caused by incorrect installation is not covered by the warranty.

11.5 Declaration of conformity

Davilon declares that the multimedia system complies with the applicable European legislation and regulations and with the requirements that apply to the product.

- The CE marking (Conformité Européenne) confirms that the product complies with European regulations on health, safety and environmental protection.

- The product complies with the RoHS Directive 2015/863/EU (Restriction of Hazardous Substances). This directive restricts the use of hazardous substances in electronic equipment. Davilon products are made from materials that fall within the permitted limit values. This supports responsible processing and recycling.
- The product complies with the Radio Equipment Directive (RED) 2014/53/EU.
- You can verify the authenticity of the certificate with the issuer of the certification.

11.6 Disclaimer

11.6.1 This manual

- This manual has been compiled with the greatest care. Davilon is not liable for printing or typing errors.
- The descriptions are based on the default settings of the system.
- The content may differ from the final product or from software supplied by service providers.
- Davilon may change the manual, product specifications, accessories, materials or models at any time, without prior notice or obligation.

11.6.2 Apps and data usage

- Apps that use a lot of processor (CPU) or working memory (RAM) can affect the performance of the system.
- Third-party apps may not work correctly, depending on the specifications of the system or the conditions of use. Davilon is not liable for performance problems, incorrect operation or insufficient support of third-party apps.
- The content and functions of supported apps are entirely the responsibility of the app providers.
- Pre-installed apps may change through updates or cease to be supported without prior notice. For questions about pre-installed apps, contact Davilon. For questions about apps you have installed yourself, contact the service provider or developer.
- Data services, such as sending messages, uploading or downloading files, automatic synchronisation and location services, may result in additional charges from your provider. Check your subscription. Preferably use Wi-Fi for large data transfers.

11.6.3 Trademarks and copyright

- Apple and other brands mentioned are the property of their respective trademark owners.
- You may only make digital copies of, for example, CDs or DVDs for personal use. Recording, distributing, modifying or publishing protected material without the permission of the rights holder may constitute copyright infringement.
- Using the system for commercial or public purposes may infringe copyrights protected by the Dutch Copyright Act (Auteurswet).

 **Caution:** Downloading from illegal sources is prohibited, even for private use. Examples include websites that share material without the permission of the rights holders, such as The Pirate Bay.

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