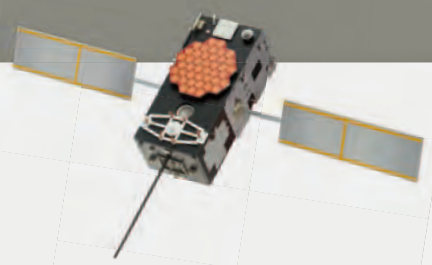
FALLER

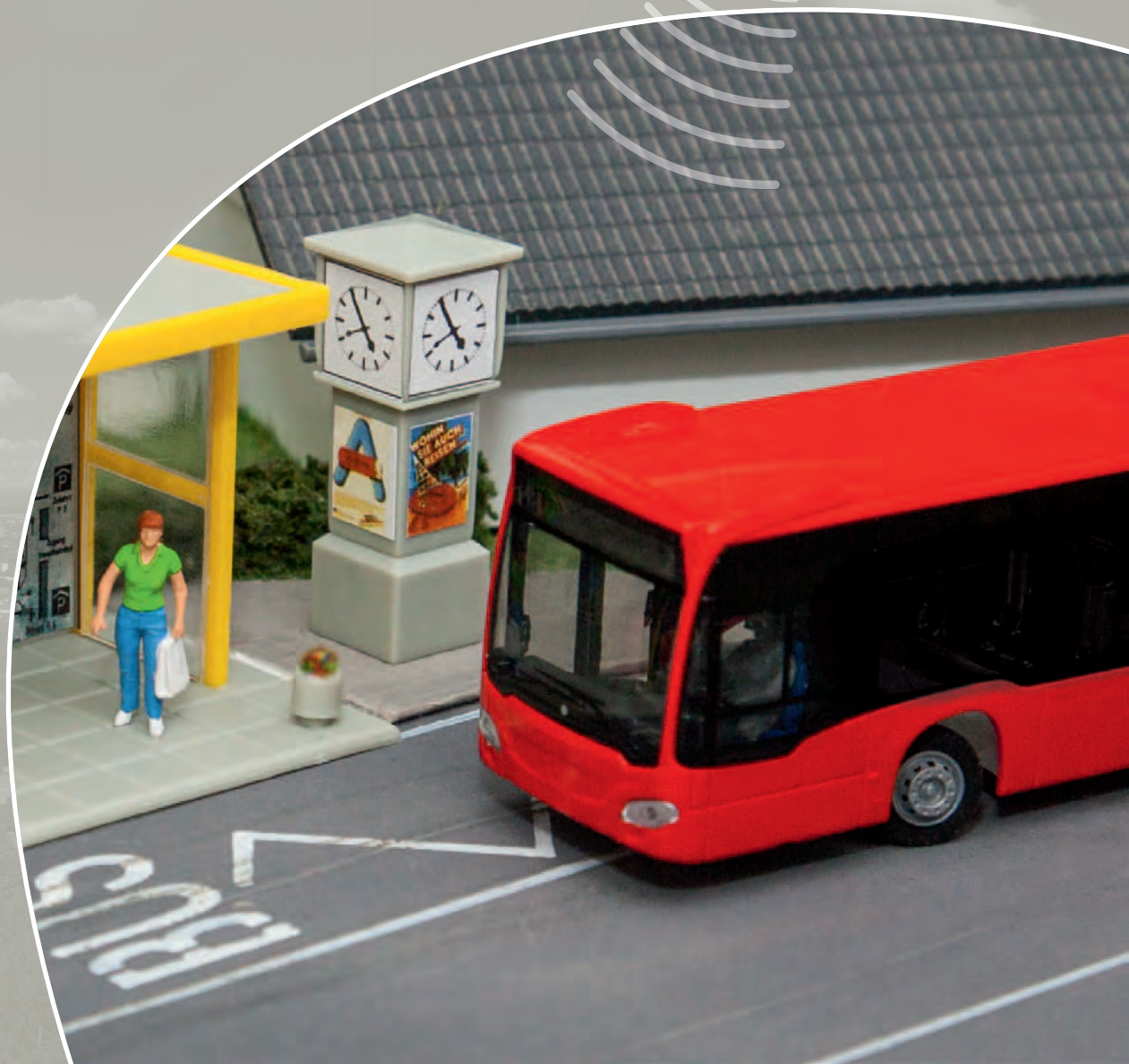
BIG IN SMALL THINGS



Car System

The connection between technology and emotion

HO N



Symbolism

Track gauge

- HO 1:87 | 16,5 mm
- TT 1:120 | 12 mm
- N 1:160 | 9 mm
- Z 1:220 | 6,5 mm

Programm

- Car System Digital
- Car System

Packaging

- Blister Pack
- Bag closing card

Periods

I	Period I	1880 – 1920
II	Period II	1921 – 1945
III	Period III	1946 – 1977
IV	Period IV	1978 – 1985
V	Period V	1986 – 2006
VI	Period VI	2007 – today

Features

- Truck-rail roll-on/roll-off system
- New items 2014
- Limited supply
- Bonus point

Table of contents

Stay creative!

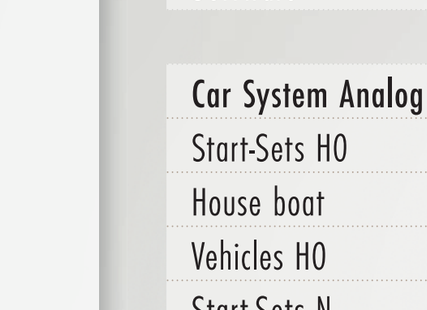
For people who drive a lot

The perfect model layout in an inspiring setting! Imaginative, creative and with a unique connection between technology and emotion.

Make room for new ideas and take advantage of the possibilities offered by the Car System for road traffic. Your Car System Digital offers maximum comfort, flexibility and safety in the planning, construction and control of your individual transport network. The analog Car System has also been given a major upgrade, which will guarantee driving pleasure.

Experience and enjoy the variety of technical innovations – regardless of whether you prefer crafting on your own, in a club or with your family. We hope you have fun browsing through our Car System range.

Your team at Gebr. FALLER GmbH



An even easier way to build roadways.
You can reach your goal quicker with our pre-assembled Laser Street elements – p. 35 ff

Step on it! Car System Digital with indoor routing from p. 4

New vehicles. New technology. New software.

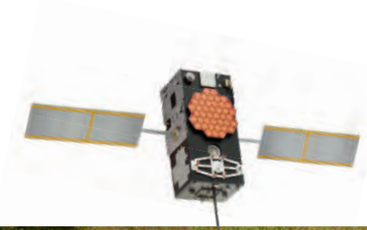
CAR SYSTEM DIGITAL

Unlimited control options with indoor routing

FALLER Car System is heading into the next season at full speed and accelerating your pulse.

The highlight of the new generation: defining the range of functions and combining them to meet your individual tastes and needs – from the simple modification of the vehicle functions during running drive operation (any modification of the lighting and sound functions or the speed, transmission of the charge condition of the rechargeable battery and much more) to software supported control of complex traffic situations via satellite. Fully automatic or voice controlled – completely according to your mood.

»You're at the wheel. Anything is possible!«
Manfred D., Development



Realistic start-up and brake behaviour

› 128 drive positions in automatic operation
› 28 drive positions in manual or semi-automatic operation
› Realistic, vehicle-specific driving characteristics. This can be further adapted individually

Car System Digital

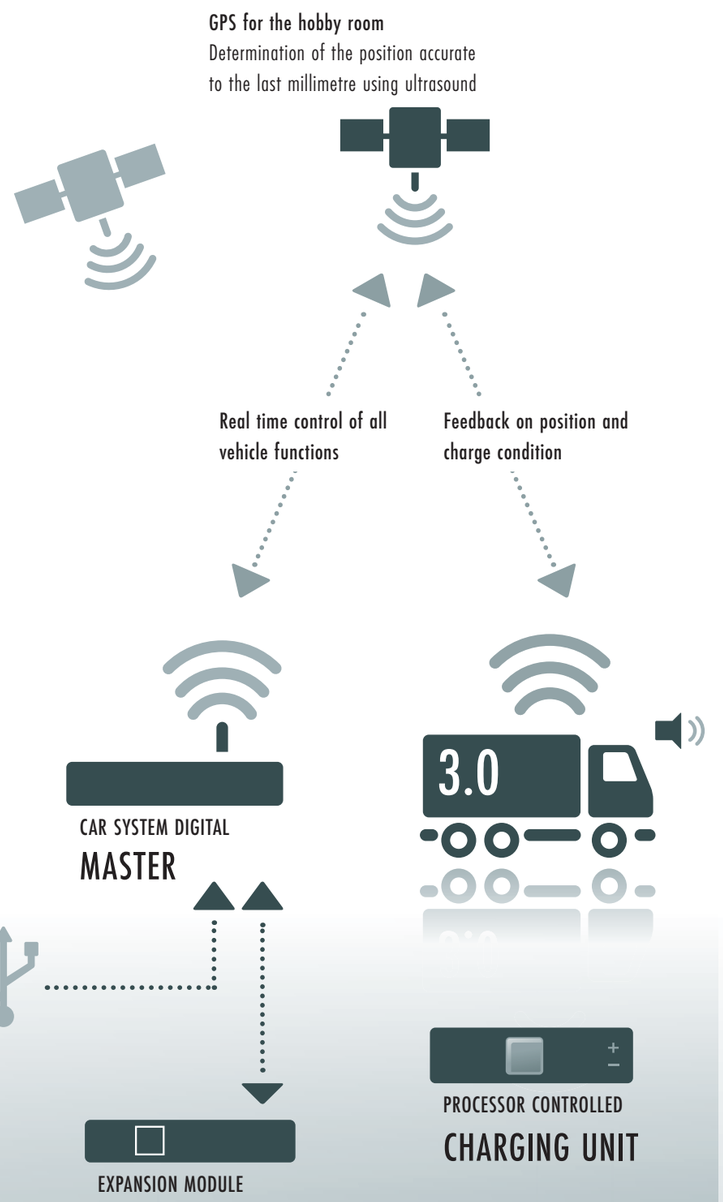
The functionality

Programmable special functions

› Start delay
› Braking curve
› Drive position
› and much more

Individually controllable lighting and sound functions

› Headlights
› Turn-signal indicators, Warning lights
› Headlight flasher, high beams
› Automatic brake light
› Rotating beacons
› Street sweepers (front flasher)
› Siren, horn



When setting up new layouts
The reduction of the construction effort is a great advantage. The only thing missing is the functional element of the junction. All other known functional elements such as stop points or parking spaces are not needed.

ALL FEATURES OF THE NEW GENERATION

New vehicle functions Light, Sound, Speed levels, Radio communication, Ultrasound – each vehicle of the Car System Digital generation has a multitude of particularly realistic vehicle functions, which are stored on an individual, digital vehicle registration card. A built-in magnetic field sensor enables application on analog layouts.

Bidirectional radio communication Continuously large amounts of data can be transferred to the vehicle via a bidirectional connection between the »Car System Digital Master« (radio communication base station) and each individual vehicle and in turn, the current drive position or the vehicle's charge condition of the rechargeable battery can be reported back. Therefore, changes in functions are possible at any time, even in direct drive operation, via any DCC-compatible digital controller in manual or semi-automatic operation.

Indoor routing The precise position – accurate to 10 millimetres – of your vehicles is exactly determined on installations up to 25 m² in three-dimensional space via the ultrasonic run-time between each individual vehicle and satellite.

Control software The intuitive »Car System Digital« software, which is also particularly suitable for Car System beginners, accompanies you in creating your layout, takes over the recognition of all components and enables fully automatic control or control supported by add-ons (voice), of complex Car System layouts – even in the case of high volumes of traffic.

Vehicles of the new digital series 3.0

You're at the wheel!

All Car System vehicles of the 3.0 generation are equipped with full digital technology incl. vehicle positioning and have headlights, tail and brake lights and turn-signal indicators. Acceleration and brake behaviour as well as speed levels are preset but can aswell be individually adapted. Furthermore, all vehicle functions can be controlled and modified in direct drive operation with the overall system »Car System Digital Master«, »Car System Digital Satellites« and the »Car System Digital« software.

Please use the »Processor controlled charging station« (art. 161349), to charge your Car System digital vehicles.

161306 V

NEU 2014

Car System Digital 3.0
MAN TGX TLF »Fire engine« (HERPA)

161307 VI

NEU 2014

Car System Digital 3.0
MB Citaro »City bus« (RIETZE)

161303 IV

NEU 2014

Car System Digital 3.0
Lorry MB Atego »Sixt« (HERPA)

161304 IV

NEU 2014

Car System Digital 3.0
Lorry MB Atego »Hertz« (HERPA)

161305 IV

NEU 2014

Car System Digital 3.0
MAN TGA Street Sweeper (HERPA)

Vehicle features

I. Realistic start-up and brake behaviour
II. 128 drive positions in automatic operation/
28 drive positions in manual or semi-automatic operation
III. Lighting and sound functions can be activated:
1. Headlights
2. Indicators / Warning lights
3. Headlight flasher / High beams
4. Automatic brake lights
5. Rotating beacons
6. Street sweepers (front flasher)
7. Siren, horn
IV. Programmable special functions (start delay, braking curve, drive positions and much more)

LED lighting components

Magnetic field sensor
For the use of the vehicles on analog layouts

Rechargeable battery and charging technology adapted to the vehicles
1. High-performance Li-ion rechargeable batteries / NiMH rechargeable batteries (vehicle-specific)
2. New charging technology for quick and smooth charging

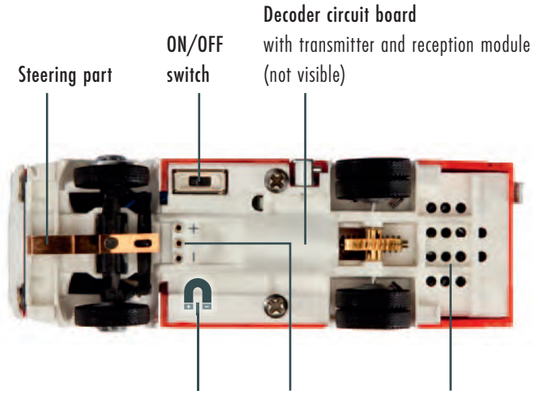
High-performance transmission and reception module
1. Own reliable reception range
2. Permanent bidirectional connection to Car System Digital Master
3. Range up to 50 m

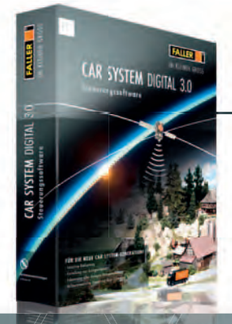
Micro ultrasonic emitter
1. Safe operation on installations up to 25 m²
2. Visually integrated into the vehicle

Feedback to the Car System Digital Master:
1. Charging condition of rechargeable battery
2. Drive position (e.g. in tunnels)
3. Function feedback (e.g. actual condition of an indicator, low beams or the like)
4. Vehicle ID (registration on PC)
5. Position and height in terms of layout level, e.g. for streets which cross

Electronic components
The electronic system of the cars includes a high-performance DCC decoder, a bidirectional radio module as well as an ultrasonic emitter. There are also further optional components, e.g. for model typical, realistic lighting or loudspeakers for sound functions. All components preserve the existing capacity of the rechargeable battery based on their efficiency and enable an up to 5 hour run-time of the vehicles using the full range of functions.

The vehicle registration card – A unique ID for each vehicle
Each digital vehicle has its own individual, digital vehicle registration card, which enables a particularly realistic realisation of the model-dependent vehicle speeds or special vehicle functions (among others: sound, flashing blue lights). (For example, for the vehicle models 2014, the MAN TGA street sweeper can never drive as fast as the MB Atego truck.) This card stored in the vehicle gives all vehicle parameters to the software when it is registered, such as the available special functions, a photo, which facilitates the recognition of the vehicle when operating the software but also the dimensions of the respective vehicle, which is essential for distance control. Modifications in the dimensions, e.g. by adding a trailer, can be registered without any problems.





Enter the 21st Century with »Car System Digital« Software

Feel the Speed!

Fascinatingly delicate, intelligent and emotional. FALLER Car System is as you want it to be and we are striving to further perfect it. This is our promise to you. The introduction of »Car System Digital« is **a milestone** on our way to maximum efficiency and flexibility. It accompanies the introduction of a radically new technology setting standards for realistic driving pleasure.

Advantages

More freedom. Higher reliability. Forward-thinking technology! »Car System Digital« software means **maximum customisation.** Use this tool to make your creative ideas come true. Software updates provide new functions and technical innovations in a fast and easy way.

Challenge

Use the enormous innovative potential of a software-based assistance system! Developing IT for FALLER Car System allows us to radically reduce the complexity of planning, setting up and controlling model traffic. Car System Digital software will support you while also boosting **comfort, safety** and of course **driving pleasure.** Car System has entered the IT age!

Solution

Expert knowledge for passionate modelling! Our cooperation with three leading companies in developing electronics for modelling allows us to develop new Car System components that bring driving to the next level. From the very first planning to active controlling during operation, Car System software is your command centre for all processes. FALLER Car System at its best!

»Competence wins the race!«
Hendrik M., Development

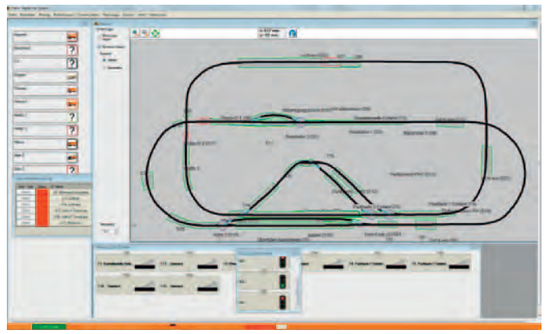
»Car System Digital« Software

»Car System Digital« Software is easy and intuitive to use. It automatically identifies all components like individual vehicle ID, satellites or the extension module allowing you to directly control all track units. The user interface provides all settings and information at one glance.

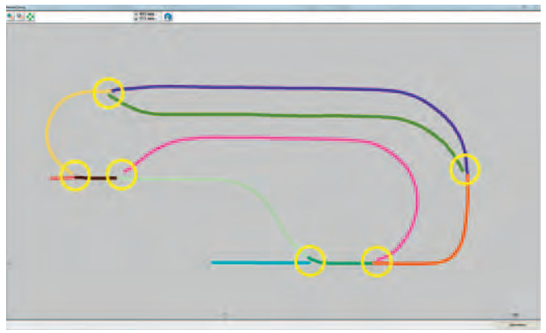
All functional elements up to whole functional sections like crossroads, fanned out parking spaces or traffic lights are already integrated into the layout. An assistant helps you to define your settings step by step.

What's new in FALLER Car System Digital?

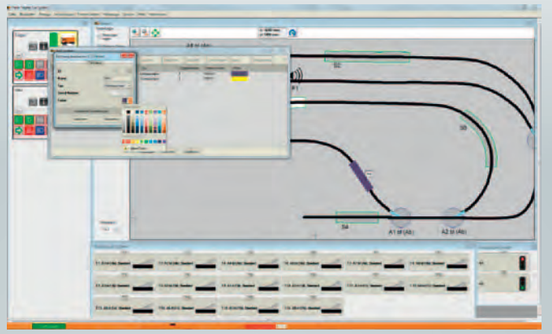
› Placing of all vehicles with millimetre precision
› Controlling of all track units
› Controlling of all functions of your Car System 3.0 vehicles
› Realistic accelerating and breaking
› Fully automatic distance monitoring for your vehicles
› Realistic traffic situations from crossroads to traffic jams
› Precise stopping



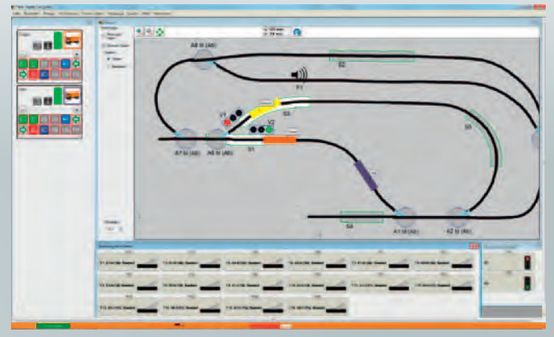
Operational view of an installation layout with overview of used vehicles, the different junction elements and the potential to control traffic lights. Automatic route recording creates individual installation layouts. This view allows you to add, change or remove road sections, junctions and traffic lights.



Preview of road sections created after route recording. The various junctions are measured automatically. Editable elements are, for example, installation scenario, vehicles, junctions, traffic lights, LocoNet modules, roads and road sections or the automatic sequence of orders and functions.



Operational view allows you to customise vehicle display. The combination of technology and software used by the vehicles ausedutomatically guarantees complete distance control for vehicles.



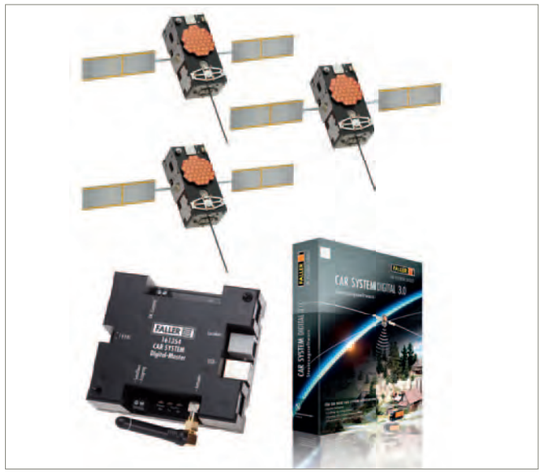
Display of block traffic lights and point traffic lights in operational view. Vehicle overview provides information on and controlling options for vehicle types and vehicle functions.

Anything is possible!

The entire digital package

The following components are required for fully automatic control with ultrasonic positioning:

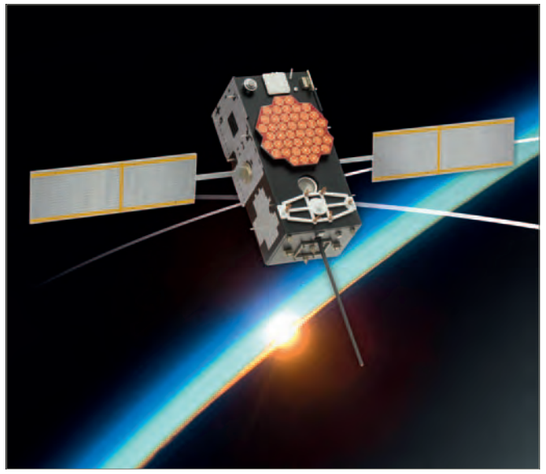
› One or several vehicles of the »Car System Digital 3.0« series
› Processor controlled charging station (art. 161349)
› »Car System Digital Master« (art. 161354)
› »Car System Digital« software (art. 161356)
› »Car System Digital Satellites« (art. 161353) for ultrasonic positioning
› »Extension module« (art. 161352) for the operation of functional elements



161355

NEU 2014

Car System Digital Beginner's Set
The beginner's set, without the vehicle, provides all components that are necessary for getting started with fully automated operation of the Car System Digital. In addition to the 3 satellites, the Car System Digital Master, as well as the software necessary for the controls, are included in the set. The software is Windows compatible from Version XP. In addition to a totally realistic road load, a fully comprehensible distance control of the vehicles is also possible! Playful fun is guaranteed.



161353

NEU 2014

Car System Digital Single satellite
The satellites serve to locate the vehicle. The duration of the vehicle ultrasound signal is transmitted to all the satellites and therefore, the position of the vehicle can be precisely determined with an accuracy of 10 mm. Depending on the size of the system, 3 satellites are necessary for the fully automated digital operation of the Car System Digital.

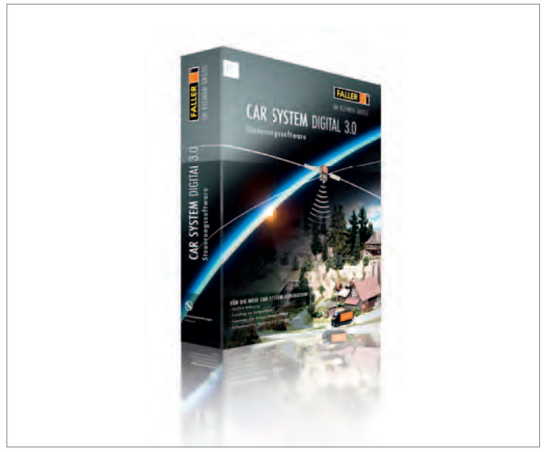
161354

Car System Digital Master
The Car System Digital Master (wireless base station) controls the communication between the necessary components and controls all functions. The communication between the satellites and the respectively vehicles is ensured by means of a wireless transmission through the respective reception module.

The Car System Digital Master possesses the following interfaces:

- USB interface for connection to a PC
- LocoNet Master connection for expansion with any LocoNet Components desired, e.g. connection of PC expansion module
- parallel power supply for satellites
- interface for any random DCC digital centre
- independent power supply with 16 V alternating voltage
- high-performance wireless antenna

The Car System Digital Master is equipped with a demo-version of the software »Car System Digital«, which is valid for 30 days.



161356

Car System Digital Software
The full version of the software »Car System Digital« may only be utilised in connection with the »Car System Digital Master« on any Windows PC from Version XP SP 2. The software, delivered on USB flash drive (incl. possibility of saving), is an integral part of the complete system. Using it, all components can be controlled and are accessible; it allows for fully automated control of complex Car System equipment. In addition to the complete functionality, the software is brilliant due to its simple and intuitive operability and modern interface. This makes particularly realistic traffic possible, the fully automatic distance control being ready to operate immediately. It's play fun guarantee.

CAR SYSTEM DIGITAL

All details on the the new generation

Get all information on FALLER Car System Digital with indoor routing free of charge right to your home. Request your documents now simply by email or by calling us.

Contact:
Email: kundendienst@faller.de
Telephone: +49 (0)7723 / 651-106

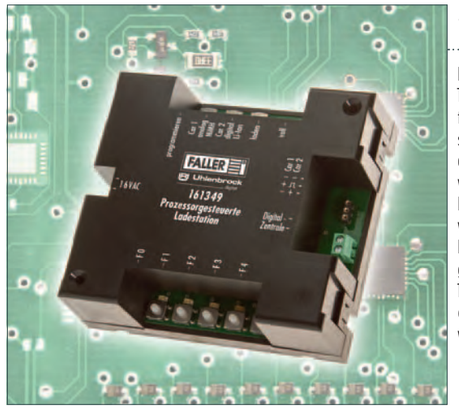
Please observe:
FALLER Car System Digital is only available from authorised retailers. You can get more information at www.faller.de.

All relevant products of the new Car System generation at a glance

Our digital world

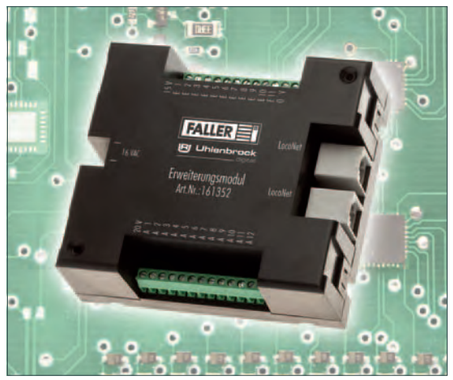
Signals are produced by the new FALLER control module. The brain of the Car System Digital uses the proven sensors and switches together and even coordinates traffic light control along with vehicle movement. The PC will perfect the use of the control options.

When purchasing the digital control components (Car System Digital Master, satellites and »Car System Digital« software), these take on all programming and control functions.



161349

Processor controlled charging unit
The latest generation of microprocessor controlled charging stations reliably charges all analog or digital Car System vehicles equipped with Li-ion or NiMH batteries. The digital vehicles' basic light and sound functions can be switched on and off using the charging station's control keys. You don't need a separate command station for adjusting basic functions. The charging station operates with 16 V AC voltage. The boost charge function reduces charging time for digital vehicles to about 1 hour.
If you use the complete Car System Digital system, you only need the station for charging your digital vehicles.
Item 161349 is the successor model for art. 161350. First generation microprocessor controlled charging stations can only charge first generation analog and digital vehicles (MAN Fire Engine, art. 161301). Please choose item 161349 as charging station for your Car System Digital 3.0 vehicles. For owners of the predecessor charging station (art. 161350), we offer an upgrade: FALLER customer service will upgrade your charging station for a small service lump sum.



161352

Expansion module
The expansion module is connected to the basic module (interface) per LocoNet, to have more inputs and outputs for stop sections, branch-off junctions, traffic lights, lighting, sensors and parking spaces for more complex model layouts.
Several expansion modules can be connected in series.

11 inputs for sensors, 12 outputs for operational elements.

180641

Transformer
for high output. Especially applicable for the operation of fair rides, electrical appliances, lighting, power supply for Car System controls and other model making accessories. With overload protection.

161773

3 Sensors
Designed for the control of stop points, branch-off junctions, etc. They are activated by additional magnets fitted to the bottom of vehicles. Connection to Traffic-Control (art. 161651).
Max. switching power 5 W, Max. switched current 200 mA

161677

Branch-off junction, electrical
The steering magnet is diverted by the active magnetic field.

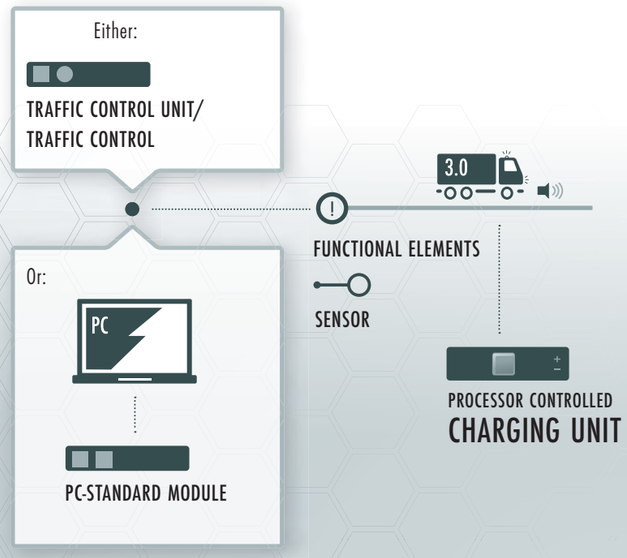
Variable combinations of digital technology

Flexibility wins!

The ideal combination of vehicles and technical components of the Car System Digital generation depends on your requirements and goals. Besides the fully automatic operation of the digital vehicles with the »Car System Digital Master«, ultrasonic satellites and the software »Car System Digital«, you can individually define and combine the desired range of functions – from the simple modification of the vehicle features during running drive operation (any modification of lighting and sound functions, the speed, or transmission of the charge condition of the rechargeable battery and much more) to the software supported control of complex traffic situations via satellite.

Optional
Using the PC basic module, the digital vehicle can be controlled using numerous sensors via a PC with Win Digipet.

Minimal version
Digital vehicles can drive on conventional layouts. A mixed operation of Car System Analog and Car System Digital is possible.



Scenario 1

Vehicle functions can be programmed on the charging station

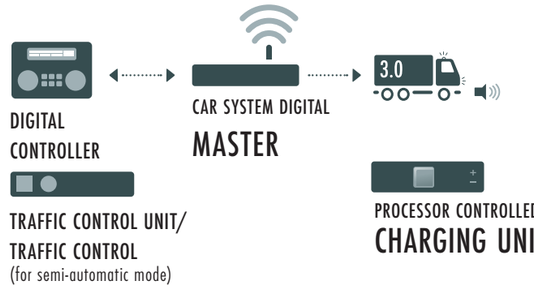
Components:
› Digital vehicle
› Processor controlled charging station

Required:
› Traffic Control
› Functional elements (stop points, junctions,...)
› Sensors

The magnetic field sensor built into the digital vehicle also enables operation on conventional Car System layouts, controlled via conventional control technology, such as Traffic Control (art. 161651) or Traffic- Light Control (art. 161654).

Lighting and sound functions can be programmed via the »Processor controlled charging station« (however, cannot be changed in running drive operation). Stop points connected to a southern pole place the vehicle in the slower drive position. Stop points connected to a northern pole stop the vehicle.

Fascinatingly easy to get the hang of
For everyone with the desire to start off with an easy introduction into Car System Digital that already has a digital controller, we recommend an introduction with a digital vehicle as the smallest state of expression, a »processor controlled charging station« as well as the Car System Digital Master. With these, one or several Car System digital vehicles can drive on a conventional layout without ultrasonic positioning but with the ability to control all vehicle functions.



Scenario 2

Driving the vehicles without automatic or with semi-automatic

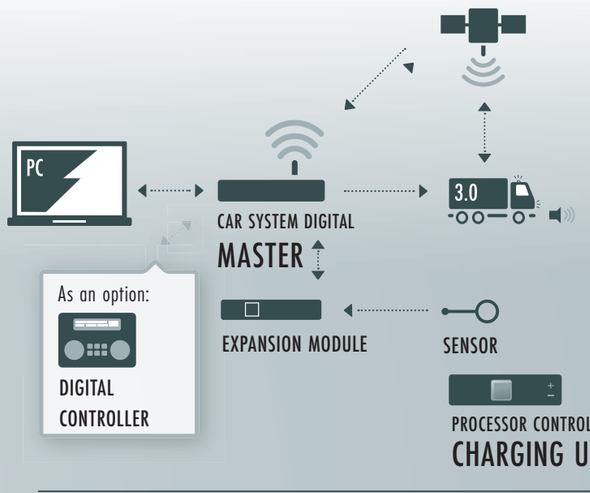
Components:
› Digital car
› Processor controlled charging station
› Car System Digital Master

Required:
› Digital controller
› Traffic Control

The Car System Digital Master enables continuous access to the lighting and sound functions as well as the speed of the vehicle via digital controller.
28 drive positions are available via a digital controller. Position feedback for the vehicles is not given.

Vehicle functions
There is the possibility of controlling the vehicle functions in drive operation.

Fully automatic process
Braking, signalling, turning, stopping, signalling and accelerating again. Activating a turn signal before a junction and turning it off afterwards. Right has the right-of-way rules and other active traffic rules. Stopping at traffic lights. The most realistic distance control on the market. The option of »taking over« a vehicle via voice control and driving your own route. And much more...



Scenario 3

Full automatic mode, with all features of the new generation

Components:
› Digital vehicle
› Processor controlled charging station
› Car System Digital Master
› Software »Car System Digital«
› Satellites
› Extension module

Optional
› Digital controller
› Sensors in separate areas

Compatibility

Tradition and innovation

Digital vehicles on conventional, analog Car System layouts
Installation of a magnetic field sensor in the Car System Digital cars also enable the application of the new vehicle generation on conventional, analog layouts.

Mixed generations of vehicles on conventional, analog Car System layouts
Conventional layouts can of course be used for digital operation. When operating a mix of analog vehicles (Car System 1.0) and digital vehicles (Car System Digital 3.0) it must be noted that only the digital vehicles can be positioned and controlled with the new technology. Therefore, all vehicles in use must be paid attention to when driving the vehicles.

Conventional Car System vehicles and digital technology
The conventional vehicles cannot be controlled with the new Car System Digital 3.0 technical components. An upgrade of the conventional vehicles to the latest technology is only possible with limitations or not at all due to a shortage of space inside most of the vehicle models.

Upgrade options for the »Car System Digital Start Set Fire Brigade MAN (HERPA)«
Owners of the »Fire Brigade MAN (Herpa)« from the Car System Digital Start Set in model year 2012 (art. 161301) can have an upgrade carried out by FALLER upon request. In this case, merely the component costs and a flat rate service fee are charged. In this case, please observe that a modification only makes sense if you also intend on using the entire new digital system (»Car System Digital Master«, satellites and software »Car System Digital«).

Car System Analog
FALLER Car System will also provide the entire technical infrastructure of analog driving in the future! The conventional vehicles are partially identical to the Car System Digital 3.0 vehicles in their appearance however, merely equipped with simple functions, e.g. without lighting or only with one drive position.

FALLER Car System Comparison of generations

Functions	CS 1.0	CS 2.0	CS 3.0
Wire-guided	✓	✓	✓
Reed sensor	✓	–	–
Magnetic field sensor	–	✓	✓
Revolving signal lights not switchable	✓	–	–
Revolving signal lights switchable via cable, when the vehicle is stationary	–	✓	✓
Revolving signal lights switchable via remote control while driving	–	–	✓
Light and sound functions (L+S) switchable via cable, when the vehicle is stationary	–	✓	✓
L+S switchable via remote control while driving	–	–	✓
Permanent access to the vehicle while driving	–	–	✓
Permanent feedback from the vehicle while driving	–	–	✓
Millimetre precision determination of vehicle's position while driving	–	–	✓
Vehicles can drive on conventional Car System layouts with stop points and parking spaces	✓	✓	✓
Slow braking and accelerating	–	✓	✓
2 driving speeds on conventional Car System layouts	–	✓	✓
Stageless change in speed	–	–	✓
Direction indicator	–	–	✓
Distance control	–	–	✓
Feedback rechargeable battery state	–	–	✓
Quickly chargeable	–	✓	✓
Modification of the vehicle parameters (speeds, start-up/braking curves...) with a DCC capable digital controller via cable	–	✓	✓
Modification of the car parameters (speed, start-up/braking curves...) with a DCC capable digital controller via remote control	–	–	✓
Control of the vehicle with a DCC capable digital controller	–	–	✓
Load-sensing motor control	–	✓	✓

Car System Analog (1.0)

Consistently classical

Make classic model layouts come to life – with realistic road traffic, without visible cabling or complex power feeds. FALLER Car System has been setting the standard in model making worldwide for more than two decades with this simple basic concept. Today, the vehicles with the oscillating front axles, a steering rod for track guiding, a motor and the corresponding gear speed on the rear axle are a modern classic.

Car System Digital (2.0)

Nothing is so good that it can't be improved

In 2012 a generation of vehicles with multiple drive positions, realistic start-up and brake behaviour, various sound and LED lighting functions as well as high-performance rechargeable batteries was introduced under the brand name Car System Digital (2.0). And, the technical basis is growing: PC basic module, extension module and the »processor controlled charging station« enable any setting of all new vehicle features and an easy control of traffic via PC and digital controller.

Car System Digital (3.0)

You're at the wheel

Car System Digital (3.0) opens never before seen options for control and driving with the new vehicles, new technical components and a new software: from fully automatic control of the entire flow of traffic, in which each individual vehicle adapts its functions such as lights, sound and speed to the given traffic situation, to the individual control of a vehicle or traffic in semi-automatic mode, via digital controller or even via voice control.
Effective immediately, all functions, even in drive operation, can be directly controlled or changed, for all vehicles in the Car System Digital 3.0 series.
Highest demands regarding driving safety – irrespective of traffic volume and the complexity of the traffic scenario – guarantee the precise positioning of the vehicles and continuous wireless contact between all components.
Intuitive software takes care of setting up and controlling all components.
If nothing else, the construction effort is significantly reduced due to the new technology, given that solely the junction is required as a leading functional component and all other known functional components, such as stop points or parking spaces, are omitted.

FALLER Customer Service

If you need advice regarding the Car System Digital or other FALLER products or would like to order spare parts, our customer service is always at your disposal and is more than happy to be of service.

Gebr. FALLER GmbH
Customer Service
Kreuzstraße 9
78148 Gütenbach

Email: kundendienst@faller.de
Telephone: +49 (0)7723 / 651-106

Qualified assistance in specialist shops

FALLER Car System Digital is at your disposal exclusively at selected and specifically trained speciality retailers.
You can find all reference addresses at **www.faller.de** in the summer of 2014.

Control your world!

Driven by innovation!

»No rails, no cables?! What first seems like magic is in fact amazingly simple!«
Gerhard K., Set Engineering

FALLER Car System stands for pure fascination in driving. **Sensational model cars** from the most renowned suppliers form the brand essence, which we equip with motors, rechargeable batteries and steering and reed sensors.

The vehicles are reliably kept on track via a steering part on the front axle and a special contact wire integrated into the road. At the same time, you arrange the mobility in your own individual manner.

While the basic idea of the Car System is continuously maintained, FALLER reinvents the driving experience for you over and over again. For this reason, we are placing the Car System in 2014 on a new foundation.

In addition to the introduction of the new Car System Digital 3.0 series, the time tested FALLER Car System 1.0 is getting an extensive upgrade, which radically simplifies **dynamic driving fun** on your model layout. Sound simple? It actually is.

Traffic Control and Traffic Light Control replace all the Car System controls you are familiar with. The connection of all control components (junctions, stop points, parking spaces and sensors) is now carried out at the traffic control, while signal aspects of traffic lights and all other traffic lighting in the Car System programme can be displayed and programmed with the Traffic Light Control.

Inspiring driving experiences, interpreted in a state-of-the-art manner. **Join the world of the FALLER Car System!**

The Yellow Angels are coming! There is also the new matching ADAC building – p. 26

Car chase! The technical innovations of our Car System provide a multitude of surprising options.

An even easier way to build roadways. You can reach your goal quicker with our pre-assembled Laser Street elements – p. 35 ff

JUST DO IT!

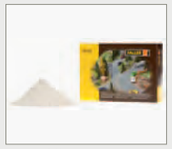
With the FALLER Start-Sets

With the countless possibilities that FALLER Car System has to offer it is best to select one of the numerous starting sets to begin with.
There are a number of starting sets available for a quick start into the Car System world, which differ almost only by the vehicle. Each of these starting sets contains everything you need to get the FALLER Car System running on your layout. Simply select the start set with your favourite vehicle and you can get started! First steps could not be easier.

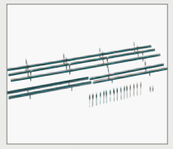
The content of a start set is as follows:

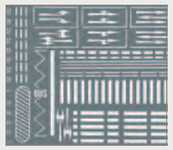

Storage battery charger/ batteries


10 m special contact wire


Street filler


Roadway paint


Guardrails, border posts, street markings



161519

SALE 2014

Car System Start-Set »Level-crossing and lorry«
Package contents:
- Protected microprocessor-controlled level-crossing equipped with 4 flashing St. Andrews crosses (like Art. 120171)
- 2 stop points
- Lorry MB SK (HERPA)
- Storage battery charger
- 10 m special contact wire
- Roadway knifing filler
- Roadway markings
- Roadway paint
- Crash barriers
- Barrier stakes
- Detailed assembly instructions


250 x 180 x 70 mm

161505

Car System Start-Set »Truck MAN«
Package contents:
- Truck MAN (HERPA)
- Storage battery charger
- 10 m special contact wire
- Road knifing filler
- Roadway paint
- Street markings
- Guard rails
- Boundary posts
- Detailed assembly instructions
- Country-specific decoration curve

161607

Car System Start-Set »DHL lorry«
Package contents:
- Lorry MAN F2000 evo
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

161521

SALE 2014

Car System Start-Set »Trailer truck«
Package contents:
- Trailer truck MB SK '94 (HERPA)
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

161503

Car System Start-Set »Truck MAN 635«
Package contents:
- Truck MAN 635 (BREKINA)
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

161504

Car System Start-Set »MB Sprinter«
Package contents:
- MB Sprinter (HERPA)
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

161499 V

NEU 2014

Car System Start-Set »Night-Bus«
Package contents:
- Nightbus MB O 405 (WIKING)
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

161501 III

Car System Start-Set »VIVIL Bus«
Package contents:
- Nightbus MB O 405 (WIKING)
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

161403 V

SALE 2014

Car System Starter Set »Motor-Coach«
Package contents:
- Coach MAN Lion's Star (RIETZE)
- 2 batteries (Micro)
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

161506 III

SALE 2014

Car System Start-Set »Bus«
Package contents:
- Bus MB O 317 (BREKINA)
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

161460 IV

NEU 2014

House boat
Car System ahoy! Car System moves from land to water and is now also available for rivers, channels, and large lakes. It offers all the comfort for building and controlling that you already know from our vehicle fleet. Welcome on board of our new houseboat!

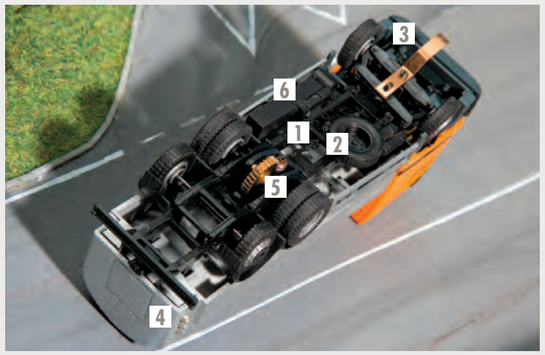
Package contents:
- Motorised house boat
- Special guide wire 10 m
- Roadway knifing filler
- 1 x Parking space, electrical (Art. 161674)
- Push-button switch
- Detailed assembly instructions

Use storage battery chargers (Art. 161349 or Art. 161690)

The Car System vehicle

»They drive by themselves! How does that work?« This is a question we hear quite often, because after all, this is characteristic of the fascination of the FALLER Car System. As if driven by a ghost hand, the cars and trucks drive along and stop at red lights and railway crossings. Of course, it is no secret how it works! We simply need to take a closer look at the vehicle:

1 Powerfull bell-type armature motor with up to 800 charging cycles and more than 2,000 continuous-duty hours
2 ON/OFF slide switch for starting and stopping the vehicle
3 Extra powerful permanent magnet mounted on the three-point-bearing front axle for exact track holding even in sharp bends
4 Exhausted storage batteries can be revived through the charging socket
5 Rear-axle drive units (shaft, worm gear and drive worm)
6 The vehicles can be stopped via a reed contact at stops (such as bus stops, traffic lights, level crossings)



161556 VI

NEU 2014

MB Citaro »City Bus« (RIETZE)

161554 V

NEU 2014

Truck MAN TGS »Repair Shop Service Truck« (HERPA/RIETZE)

161555 VI

NEU 2014

Truck MB Atego »Dachser Refrigerated Box« (HERPA)

161586 IV

VW T5 Bus »ADAC« (WIKING)

161561 IV

Lorry MB Atego »Sixt« (HERPA)

161584 V

Lorry MB SK »Emons« (HERPA)

161560 IV

Lorry MB Atego »Hertz« (HERPA)

161587 IV

Ford Transit (BREKINA)

161582 III

VW T5 Bus (WIKING)

161583 III

VW T5 Transporter (WIKING)

161612 V

SALE 2014

Setra S 315 HDH Coach (HERPA)

161543 V

VW Touareg »Police« (WIKING)
with flashing light

161544 V

SALE 2014

VW Touareg »Fire Brigade« (WIKING)
with flashing light

161536 V

MF Tractor (WIKING)
with trailer

161566 III

MAN 635 »Coal Merchant« (BREKINA)

161552 V

SALE 2014

MF Tractor (WIKING) with round-bale trailer (BREKINA)

161613 III

SALE 2014

Setra S 6 (BREKINA)

Mobile on track N

Roads are also coming alive for fans of the N track. Kept on track magnetically and energised by a re-chargeable battery, the Car System vehicles drive across the model landscape on their own. Already a miracle of precision in HO, the components and functional elements are even smaller, more compact and more sensitive here.

162007 IV

NEU 2014

Car System Start-Set
Lorry MB SK »Dachser«
Package contents:
- MB SK truck »Dachser« (WIKING)
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

162005 V

Car System Start-Set »Tour coach«
Package contents:
- Setra S 315 HDH (RIETZE)
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

162002 IV

SALE 2014

Car System Start-Set »Truck«
Package contents:
- MB SK truck »Dachser« (WIKING)
- Storage battery charger
- Special guide wire 10 m
- Roadway knifing filler
- Roadway paint
- Roadway markings
- Crash barriers
- Barrier stakes
- Detailed assembly instructions

162006 IV

MB O404 Tour Bus (RIETZE)

162051 III

LKW MB SK (WIKING)

162048 IV

SALE 2014

Lorry MB SK (WIKING)

The possibilities are endless

Technical accessories

Once you have decided to accept the challenge of building a Car System installation, there are plenty of opportunities to give free rein to your creativity. No matter on which techniques and materials you will decide, the fascination lies in the details.

Merely driving within a traffic circle is not really exciting; it's no fun in real life either. When planning your installation, you will quickly get new ideas anyway: a bus stop would be nice, or a parking space with diagonal markings, perhaps traffic lights, too, at which vehicles actually stop when the light is red, and move on again when the light is green. But how does that work and can I put that into practice on my own? Is this difficult to build? What do I need for such a project?

These are more or less most people's thoughts when they try for the first time to figure out what FALLER Car System would look like on their installation. We have been brooding over such issues for the last 20 years, too, in fact since we put the Car System on the market. From the beginning, the essential point for us has been to reassure everyone who is interested in the system and to assist them when they want to have a try.

It is indeed much less complicated than it seems at first sight.

The procedure controlling the vehicles regularly arouses great amazement. Steering the traffic actually requires various electromechanical and electronic components:

On the following pages you will find all the technical aids offering innumerable possibilities to build in even more functionality into your project and thus make your Car System installations even more interesting. Once you have understood the principle, many details will very quickly lose their mystery.
If you want to plunge to an even greater depth into the Car System world, our brochure (art. 190847) will provide you with the best fundamentals. In addition, FALLER offers a wide variety of professional seminars and workshops. Just enroll for such an event and none of your questions will remain unanswered.

Components

161675

Stop section
The accumulator voltage is interrupted via a reed switch in the vehicle by means of the magnetic field of the electric coil.
Connection: 16-22 V, DC voltage.

161677

Branch-off junction, electrical
The steering magnet is diverted by the active magnetic field.

161674

Parking space, electrical
for the permanent stopping of vehicles in car parks. The vehicle is reactivated by means of the magnetic field of the electric coil.
Connection: 16 V, AC voltage.
Current draw 330 mA.

Conception and development:
Grad. Eng. K. Bauerfeind, Munich

161773

3 Sensors
Designed for the control of stop points, branch-off junctions, etc. They are activated by additional magnets fitted to the bottom of vehicles. Connection to Traffic-Control (art. 161651).
Max. switching power 5 W
Max. switched current 200 mA

Control

161651

Traffic Control
The new Traffic Control! Modified and improved. Nearly every traffic situation can be simulated. Whether you want to plan a bus stop, diagonal parking lot, work zone, right-hand or left-hand traffic. The vehicle will stop by itself. Along with 8 inputs and 8 outputs, a total of 15 control programs can be selected via microswitches. Rotary control knobs allow to adjust different periods of time. With detailed instructions for use. 16 V alternating voltage; an ideal complement is transformer art. 180641!

161351

PC-standard module
The standard module (PC-interface) allows controlling the Car System via a PC.
With the assistance of the software, actions can be controlled, the modules configured and activated accordingly. Also ideal for upgrading an existing system and its controller. The basic unit is delivered with a version specifically adapted to the Car System of Win-Digipet (Demo Version).

11 inlets for sensors,
12 outlets for functional elements.

Everything is possible

In addition to improved terminals, improved operational reliability, and reverse polarity protection the Traffic Control comes with new programs. A total of 15 programs in the form of various combinations of inputs and outputs are now available. Programs can be conveniently selected by means of a microswitch. Depending on the program chosen, two periods of time can be adjusted at the outputs by means of a rotary control knob, and thus suit your personal requirements.

161622

Car System Basic set »Components«
The extremely economical beginner's package with the major functional elements allowing to build Car System installations.
Package contains: 1 Traffic Control (art. 161651), 3 Sensors (art. 1 x 161773), 2 Stop sections (art. 161675), 1 Branch-off junction, electrical (art. 161677), 2 additional magnets

Always Punctual

This set allows vehicles to swerve out, stop and reinsert themselves into the traffic flow without any problem. The package contains all parts allowing you to build an operational bus stop.
The set allows you not only to build a bus stop, but also to pull into a petrol station. Basically, you can reproduce all situations in which a particular vehicle has to be pulled out of the traffic flow (e.g. a camper towards a campsite, a passenger car towards a branch road, a truck towards a factory site). The sensors are switched via the steering magnets in the vehicles and via additional magnets coding the particular vehicles.

161653

162067

Car System Bus stop set
This set contains all parts for building an operational bus stop: control section »Traffic-Control« (16 V, AC), 1 turnoff, 1 stop section, 2 control sensors for the installation in the roadway, 1 additional magnet for fitting the car, special contact wire, shelter kit with decorational elements, install template and detailed assembly and control instructions.

Conception and development: Grad. Eng. K. Bauerfeind, Munich

Light

161656

162056

2 Traffic lights without switch
Designed for use in conjunction with the Traffic-Light-Control (art. 161654). 16 V, AC voltage.

161666

Radar speed check
That radar speed check is fitted with a bright LED that lights up via a supplied sensor. The sensor is built into the roadway, or into a rail track wherever the Car System is not used. One flashlight box to be built for HO or N, respectively. Current supply via 16 V.

161673

SALE 2013

Construction site set
This package contains all parts allowing to build and equip an operational road construction site.

Well protected

A road building site is always something out of the common on an installation. That set allows to equip a construction site without any problem. The printed circuit board makes sure that oncoming cars can safely pass through a bottleneck. The traffic lights alternatively switch to green and the control unit unlocks the connected stop points accordingly. The control of flash lights or strings of lights can also be used independently.

161654

Traffic Light Control
This Traffic Light Control allows you to pilot every kind of traffic light installed on Car System layouts. Power supply through FALLER Transformer (art. 180641). With detailed instructions for use. 16 V, AC voltage.

Functions:
- up to 4 traffic lights can be connected (12 LEDs)
- the length of time of the different lights can partly be programmed at will
- up to 16 different LEDs (of 20 mA each) can be connected without having to use a surge protector
- running lights possible with up to 8 lamps

Play of light

Traffic lights are now part of every installation. But their cycle time has to be correct. This control unit allows to regulate complex crossroads. On doing so the Traffic Light Control ensures the right light is switched on. All signal patterns required can be represented at the traffic lights. The unit will meet the most varied requirements.

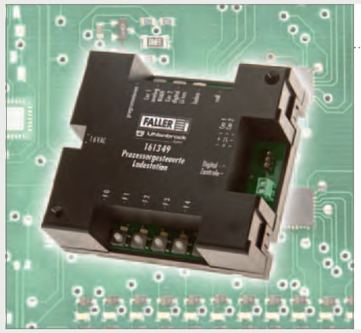
180371

NEU 2014

Automated parking barriers
Model of an automated barrier unit with two vertical columns and self-supporting boom arms for monitoring access to parking spaces, parking garages or corporate facilities. The kit includes drive parts for both movable barriers so that you can easily attach servos. Car System operation possible.
Depth: 12 mm

111 x 70 x 18,5 mm

Battery charger and useful helpers

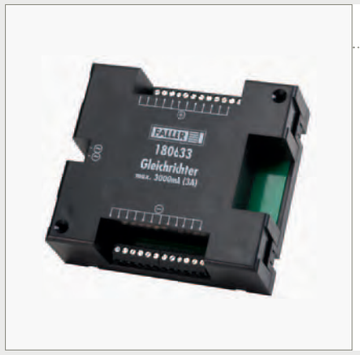


161349

Processor controlled charging unit
The latest generation of microprocessor controlled charging stations reliably charges all analog or digital Car System vehicles equipped with Li-ion or NiMH batteries. The digital vehicles' basic light and sound functions can be switched on and off using the charging station's control keys. You don't need a separate command station for adjusting basic functions. The charging station operates with 16 V AC voltage. The boost charge function reduces charging time for digital vehicles to about 1 hour. If you use the complete Car System Digital system, you only need the station for charging your digital vehicles.

161690

Storage battery charger (230 V)
Suitable for charging all accumulators built into Car System vehicles.



180633

Rectifier
to transform 16 V alternating current into direct current. Especially applicable for LED lighting in order to avoid a slight flickering of the small bulbs (art. 180647, 180648, 180649 as well as the lights 180630 + 180633).

190847

Model-making made easy »Car System«
The modelling brochure has been expanded by 20 pages, its content was comprehensively revised to impart further expert skills, entirely new topics have been dealt with perfection, and control/electronic elements that have been launched in the meantime are also introduced. That's pure Car System, a must for every model-maker.

180641

Transformer
for high output. Especially applicable for the operation of fair rides, electrical appliances, lighting, power supply for Car System controls and other model making accessories. With overload protection.

Safely on the other side

You have to cross a railway line? Then art. 161657 is the right one. However, if you want to approach and drive over a protected level crossing with Car System vehicles, we recommend art. 120171. Both articles are suitable for all types of rails. Even for three-conductor rails!

161657

Level crossing
To easily cross over model railway tracks. Suitable for the most track systems.

It's simplicity itself: Laser Street

Making roadway design a certain success

Roads are every city's nerve cords just as a design will only truly come alive with animated streets. The right basic knowledge and the extensive FALLER accessories make roadway designs a breeze. There are different techniques and accessories depending on what you wish to accomplish.

FALLER Laser Street

FALLER Laser Street features prefabricated street elements which simply connect together and already have a groove for the contact wire. Custom roadway routeings and integrating curves, passing points, branches, bridges and slip roads can also be implemented just as easily. Roadways are particularly simple and accurate to design with FALLER Laser Street, without foregoing the familiar variety in the design.

Customisation

The groove cutter also allows roadway designs to be customised to your ideas. We merely recommend a minimal curve radius of 150 mm to ensure a smooth flow of oncoming traffic for all Car System vehicles. The unmatched routeing allows you to include unique design features in detail. See page 6 for additional customisations.

Galleries

Our galleries will guide you without a lot of words, illustrating key process steps. You will then know how roadways are installed and how to plan the installation of various functional elements. The FALLER Laser Street roadway components can be used temporarily or as a complete roadway system.

Materials

We recommend using rigid foam sheets and a wooden frame for creating model designs. Your design will be lighter and easier to work with. For streets we recommend using 3 mm thick three-layered plywood, which is also what we use for the FALLER Laser Street elements.

Laser-Street – Streets in quick build

Street layout: First, the street layout is arranged by simply placing the roadway segments where desired. This is child's play, with the help of the connecting segments. All roadway segments have a laser-cut groove in which the contact wire is later placed. Important: Glue the subsurface of the segments!

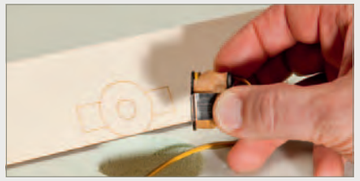
Bends: Just like in real traffic vehicles swing out. This means that the guide wire is directed towards the exterior whenever the course of the road features a bend. Bend segments can be used on both sides, so that the same segment allows to build left-hand and right-hand turns.

Transitions of terrain: Roadway segments consist of 3 mm thick three-layer plywood and are easy to bend, yet they are still very sturdy. Small rigid-foamed blocks rapidly allow you to build in differences of level into the road and to design transitions in the relief accordingly.

Variable circuit layout: Variants in the course of the road are very easy to design using the element of flexible roadway. That part is of a most versatile use and allows a suitable circuit layout in extremely reduced space. Without much effort, you have brought your personal touch in the roadway.

Combined method: Whoever wants to individualize it even more, will be able to design their own roadway sections using 3 mm thick plywood. Simply separate the connection points of the roadway elements and modify them to obtain the required length. Then integrate the 3 mm thick plywood.

Groove cutter: Then draw the desired course for the lane and cut the groove intended for the guide wire using the groove cutter (art. 161669). It could hardly be easier and quicker to implement one's own ideas. You have every possibility to build individually, while simultaneously exploiting the advantages offered by the roadway elements.



Mounting aids: All roadway segments have been prepared to allow building-in functional elements. Whether it be a branch-off junction (art. 161677), a stop point (art. 161675), a parking place (art. 161674) or a sensor (art. 161773). For each possible element we have provided a mounting aid.

Drilled holes: For the branch-off junction the opening and the shoulder have been cut already for the course of the guide wire, so that the junction merely has to be inserted and fixed. At all appropriate points in the course of the guide wire, holes have been drilled, in which sensors can be inserted.

Mounting: The various mounting aids allow you a bus stop within a few minutes, for instance. Moreover, these parts allow you to understand the general building system ruling the structure of functional articles, which considerably simplifies the implementation of your own ideas.

Applying filler: To obtain a smooth roadway and eliminate any further inequalities, seal the surface using some knifing filler (art. 180500).

Road coating: Whoever wants to obtain a very smooth surface, will be able to eliminate small inequalities using fine emery paper after the knifing filler has set. The important point is that the guide wire must still show through everywhere. Now, you can finish the work using roadway paint (art. 180506).

Decoration: Depending on your own ideas, you may want to decorate the road with roadway markings, marker posts, crash barriers, traffic signs and traffic boards. It is not necessary to conceal the road verge in a complicated way. Usually applying some knifing filler or shapeing it with scatter material will do. It's a very simple way to obtain an appropriate road verge.

161900

LASERCUT

Laser-Street Basic-Set »Street elements«
With these parts which are easily to processed by interlinking street parts that already contain the groove for the guide wire, different single and double lane streets can be built.
The content corresponds to 2 x 161920, 2 x 161921 and 2 x 161930.
Guide wire included.

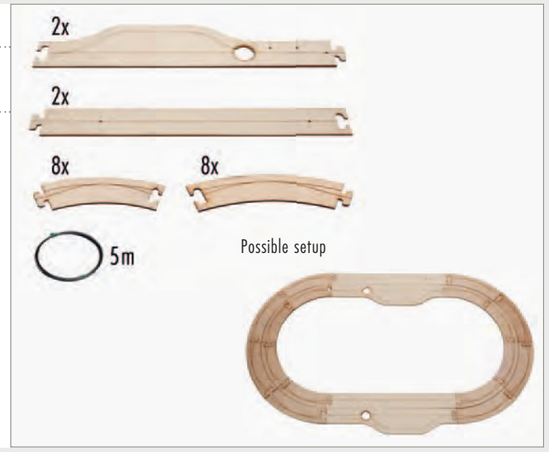
Length of route: 4750 mm

162100

LASERCUT

Laser-Street Basic-Set »Street elements«
With these parts which are easily to processed by interlinking street parts that already contain the groove for the guide wire, different single and double lane streets can be built.
The content corresponds to 2 x 162120, 2 x 162121 and 2 x 162130.
Guide wire included.

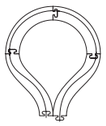
Length of route: 3300 mm



161945 411 x 320 mm

LASERCUT

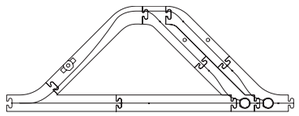
Laser street »Terminal loop«

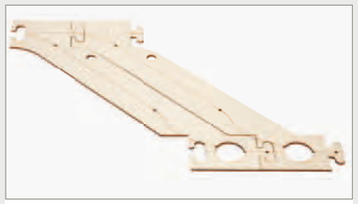


161942 873 x 320 mm

LASERCUT

Laser street »Basic car park«

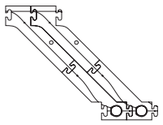




161943 411 x 320 mm

LASERCUT

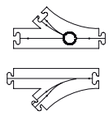
Laser street »Car park expansion«



161940 212,5 x 102,5 mm

LASERCUT

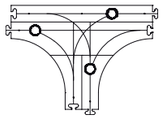
Laser Street »Forks and junctions 45°«



161941 425 x 312,5 mm

LASERCUT

Laser Street »T Junction«



161910 425 x 50 mm (2 x)

162110 300 x 30 mm (2 x)

LASERCUT

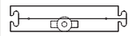
Laser-Street street straight

161911 212,5 x 50 mm (4 x)

162111 150 x 30 mm (4 x)

LASERCUT

Laser-Street street straight



161920 R= 268 x 50 mm (4 x)

162120 R= 150 x 30 mm (4 x)

LASERCUT

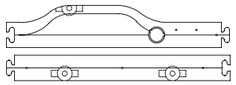
Laser-Street street curve 45°

161930 425 x 83 mm/425 x 50 mm

162130 300 x 50 mm/300 x 30 mm

LASERCUT

Laser-Street »Bus stop set«



161931 250 x 50 mm

162131 150 x 30 mm

LASERCUT

Laser-Street flexible street

161921 R= 218 x 50 mm (4 x)

162121 R= 120 x 30 mm (4 x)

LASERCUT

Laser-Street street curve 45°

Custom roadway design

To integrate the FALLER Car System into your existing design the so-called sunken method may be right for you. Use the Groove Cutter (art. 161669) to customise the routeing of the contact wire and adapt the flow of traffic to local factors.

Preparation

Our recommendation: Use rigid foam sheets with a wooden frame for the base frame and use 3 mm thick plywood for streets and other constructions. This is the maximum distance a stopping point coil may be from the top of the roadway. All functional elements can now be installed directly below the roadway. This will also reduce the overall weight of your design.

Make the surface of the roadway as smooth as possible and consider the turning radius of the vehicle to be used in the width. Longer vehicles require a wider road, especially for curves, than cars. The minimum curve radius should therefore not be less than 150 mm.

Please refer to the following chart for minimum roadway widths:

Roadway widths (single-/two-lane)

	HO	N
Straight areas	50 mm/100 mm	30 mm/60 mm
Curves at least	70 mm/140 mm	45 mm/90 mm

Upward and downward hills

When constructing upward or downward hills or crests it's important to round the roadway at the respective transitions for vehicle control. Upward hills should not be steeper than 12 % (120 mm over 1000 mm roadway).

Once you know how the roadways should be routed you can start.

Planning: Mark the roadway by outlining it on the plywood and perform a test run to ensure the roadway is uniform. To do so lay out the wire, affix with an adhesive strip and test the route with a vehicle.

Cutting: The Groove Cutter (art. 161669) is ideal for installing the special contact wire. The small machine features a slitting cutter which is guided along the marked path. Cutting the right groove height and width allows for optimal contact wire installation.

Installing contact wire: Press the contact wire into the groove with a flat head screwdriver or joiner, ensuring it is correctly seated in the groove.

Precision with FALLER speciality contact wire

Use only FALLER speciality contact wire (art. 161670) to build roadways, as using magnetic tape or soft iron wire may result in unwanted functional problems. To ensure traffic flows smoothly without incidents neither the individual magnetic fields of vehicles or functional elements nor the overall magnetic field of your model set should be impaired. Using the FALLER speciality contact wire will prevent potential malfunction sources in traffic caused by weaker, stronger or permanent local magnetic fields.

161669

Groove cutter
This groove cutter was developed and made especially for laying the contact wire in the FALLER Car System. Detailed instructions enclosed.
Connection: 12 V, DC voltage. Adapter cable and comprehensive instructions are included.

ⓘ The right scale

The ideal tool for the individual street layout. The machine is equipped with a slotting cutter. The adjustment slider on both sides of the cutter guarantees the best possible result. In this way, it is possible to cut the exact depth the contact wire requires into the roadway. It doesn't get better and more precise than this. The groove cutter can be run straight off our transformer (art. 180641)!

161670

Special contact wire
10 m. Diameter and alloy adapted for use with steering magnet.

180506

Roadway paint
Particularly suited for road construction with the FALLER Car System. Also suitable for adding colour when creating rocks or to conceal flaws in rigid foam sections.

250 ml

180507

»Concrete« Roadway paint
Particularly suited for road construction with the FALLER Car System. Also suitable for adding colour when creating rocks or to conceal flaws in rigid foam sections.

250 ml

180500

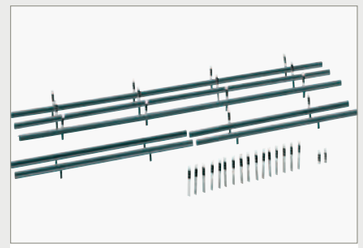
Knifing filler
Used for road and terrain construction. Self-adhesive modelling material to be handled with no problem whatsoever. This material is particularly suitable for road construction in the FALLER Car System.

500 g

170654

Knifing filler for terrain construction
Terrain construction dark-grey, self-adhesive modelling material. It is particularly suitable for terrain and rock modelling and for road construction in the FALLER Car System.

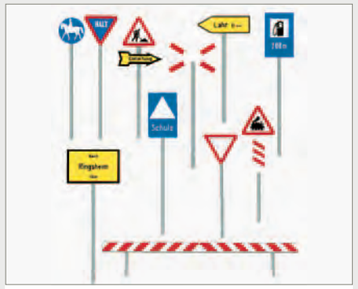
500 g



180535

Crash barriers, 32 Marker posts
for making the roadway safer.

1600 mm

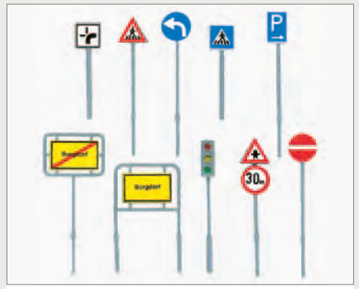


180539

Traffic Signs
for Germany (1948 – 1977)
Contents: rub-on sheet, rub-on stylus, moulded traffic signs.

180540

Traffic Signs
Europe international (1977 – 1985)
Contents: rub-on sheet, rub-on stylus, moulded traffic signs.

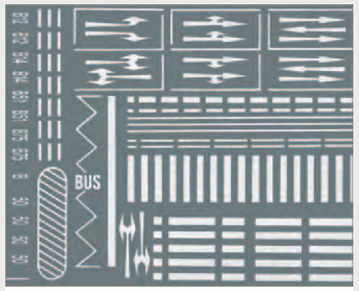


180541

Set of traffic signs
International traffic signs, place names, directional signs. Traffic lights, parking meters and waste baskets.

272450

Set of traffic signs
Europe international (1977 – 1985)
Contents: rub-on sheet, rub-on stylus, moulded traffic signs.



180536

272451

Street markings
Self-adhesive rub-on transparency of all the necessary roadway marking symbols.

180538

Streetlamp set
26 street light dummies in 6 different designs. Do not light up.

180537

Set of sidewalk tiles
Tile Size: 160 x 113 mm (2x)
Kerbstones: 3420 mm

272540

Set of sidewalk tiles
Both pavement tiles can be split as required.
26 flexible kerbstone sections are included.
Tile dimensions: each 60 x 87 mm
Kerbstones: 1660 mm

Customer service

Should you have any question concerning our products, our customer service is available to you along with qualified advice from your specialist dealer. You can reach our experts by phone at **+49 7723/651-106** or simply send a mail to **kundendienst@faller.de**.

Car System at its best!

Service for Car System vehicles

When was the last time you had your vehicle checked? Do you carry out major repairs yourself or just take your vehicle in for service?

Rely only on experts and let us do future repairs. FALLER now offers complete in-house service for your Car System vehicles – from simple maintenance to major repairs. We fix (almost) everything.

Our service for you includes among other things:
› Basic check-up of your vehicle
› Professional troubleshooting
› Basic cleaning and greasing
› Replacing of wear and tear elements like motors, batteries, tires, steering parts, gear boxes and front axles
› Tests and quality check-up

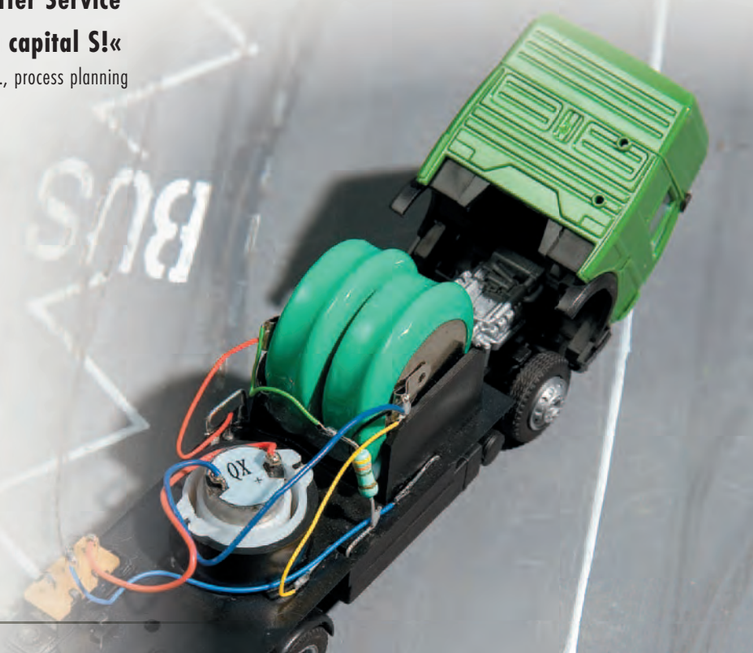
You want first class service?
Then send in your vehicle.

Gebr. FALLER GmbH
Customer Service
Kreuzstrasse 9
D-78148 Gütenbach
Germany

If your vehicle needs a major repair, we will send you an estimation of costs. Please visit our website www.faller.de for our rates for standard services.

Please note:
We can only offer services and carry out repairs for **original FALLER Car System vehicles.** Modified vehicles cannot be inspected.

»We offer Service with a capital S!«
Michael K., process planning



FALLER Car System Spare Parts
Do it yourself!

Car System vehicles consist of various wear and tear parts that need to be replaced after a certain amount of usage like tires. Batteries also can only be recharged a limited number of times.

If you like working on your Car System vehicles yourself just follow your feeling for quality. Order your wear and tear parts or spare parts directly from FALLER. We offer the matching parts for nearly every Car System vehicle. Just browse our completely revised parts programme and you will find everything from steering parts or tires for different vehicle types to Reed switches or different motors.

Please visit our website www.faller.de for the full range of Car System spare parts including pictures and brief descriptions.

Please note:

› We cannot guarantee spare part supply for vintage cars among Car System vehicles if the needed spare part is not in stock or impossible to procure.

› Using the previous article numbers, you will get spare parts while stocks last.

Front axles


Example

Front axle	
163001	completely assembled for sprinters (with wheels)
163002	completely assembled for lorries / buses (with wheels)
163003	completely assembled for lorries / buses (with NQ wheels)
163004	completely assembled for passenger cars (with wheels)
163005	completely assembled for passenger cars, small (with wheels)
163006	completely assembled for VW vans (with wheels)
163007	completely assembled for Ford Transit (with wheels)
163008	completely assembled for delivery trucks (with wheels)
163009	completely assembled for N buses (with wheels)
163010	completely assembled for N lorries (with wheels)
163011	completely assembled for classic lorries (with wheels)
163012	completely assembled for lorries 7.5 t. (with wheels)
163013	completely assembled for tractors (with wheels)
163014	completely assembled for TT bus (with wheels)
163051	ssembled for lorries without wheels (17 mm)
163052	assembled for passenger car sprinters, without wheels (12 mm)
163053	assembled for passenger cars slim, without wheels (9 mm)
163054	assembled for N without wheels (8 mm)

Tyres and rims


Example

2 wheels (twin tyres)	
163101	Tyres and lorry rims
163102	Tyres and classic lorry rims
163103	NQ tyres and rims for lorries / various buses
163104	Tyres and rims for electric bus
163111	Tyres and rims for 7.5 t.
163112	Tyres and rims for fire brigade

4 wheels with rims and tyres	
163105	(e.g. for VW van)
163106	(e.g. N buses / Trabant)
163109	for Ford Transit

4 tyres and rims	
163107	for N lorries
163108	for Sprinter / T5
163110	for N lorries
163113	for passenger cars
163114	for passenger cars large / tourist train

Steering parts


Example

2 steering parts	
163201	for NQ lorries
163202	for lorries
163203	for N vehicles / VW van
163204	TT bus / Mercedes G
163205	for special vehicles
163206	for delivery vans
163207	for tractors

Accumulators


Example

Rechargeable battery	
163251	350 mAh
163252	120 mAh
163253	250 mAh (double)
163254	250 mAh (double, flat)
163255	150 mAh (double, flat)
163256	150 mAh
163257	450 mAh (double)
163258	40 mAh

Reed sensors


Example

Reed sensor	
163451	Glass tube small (GR-31 5-12)
163452	Large moulded
163453	Glass tube large
163454	Long blue (MK06-5-C)
163455	Changer, electric bus (MK06-8)
163456	Short blue (MK06-4-C)

Motors


Example

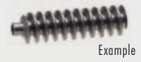
Motor	
163301	Ø 10 mm, left worm, module 0.3
163302	Ø 10 mm with surface, module 0.3
163303	Ø 7 mm, module 0.3
163304	Ø 10 mm, module 0.3
163305	Ø 7 mm, module 0.16
163306	Ø 6 mm short, module 0.16
163307	Ø 6 mm long, module 0.16
163308	Ø 6 mm long, module 0.16 five-pole
163309	Ø 6 mm medium, module 0.16
163310	Ø 10 mm short worm, module 0.3

Switches


Example

On and off switch	
163401	for lorries
163402	for passenger cars and N vehicles
163403	for electric bus
163404	for circuit board

Worm gears


Example

Worm gear	
163551	Module 0.3 Z30
163552	Module 0.3 Z18
163553	Module 0.3 Z20
163554	Module 0.16 Z20
163555	Module 0.16 Z35

Motor brackets


Example

163501	for Ø 10 mm motor, axle 24 mm / module 0.3 Z30
163502	for Ø 7 mm motor, axle 24 mm / module 0.3 Z18

Charging sockets


Example

163601	5 charging sockets, unmounted (to inject)
163602	5 charging sockets, moulded

Magnets


Example

163221	2 additional magnets H0
163222	2 calibration magnets
163223	2 additional magnets N

WORKSHOPS

Where you're certain to learn something new!

Under the motto »Learning by doing« we convey the necessary knowledge about Car System, electronics and set construction.

Learn more about our workshops at **www.faller.de**

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