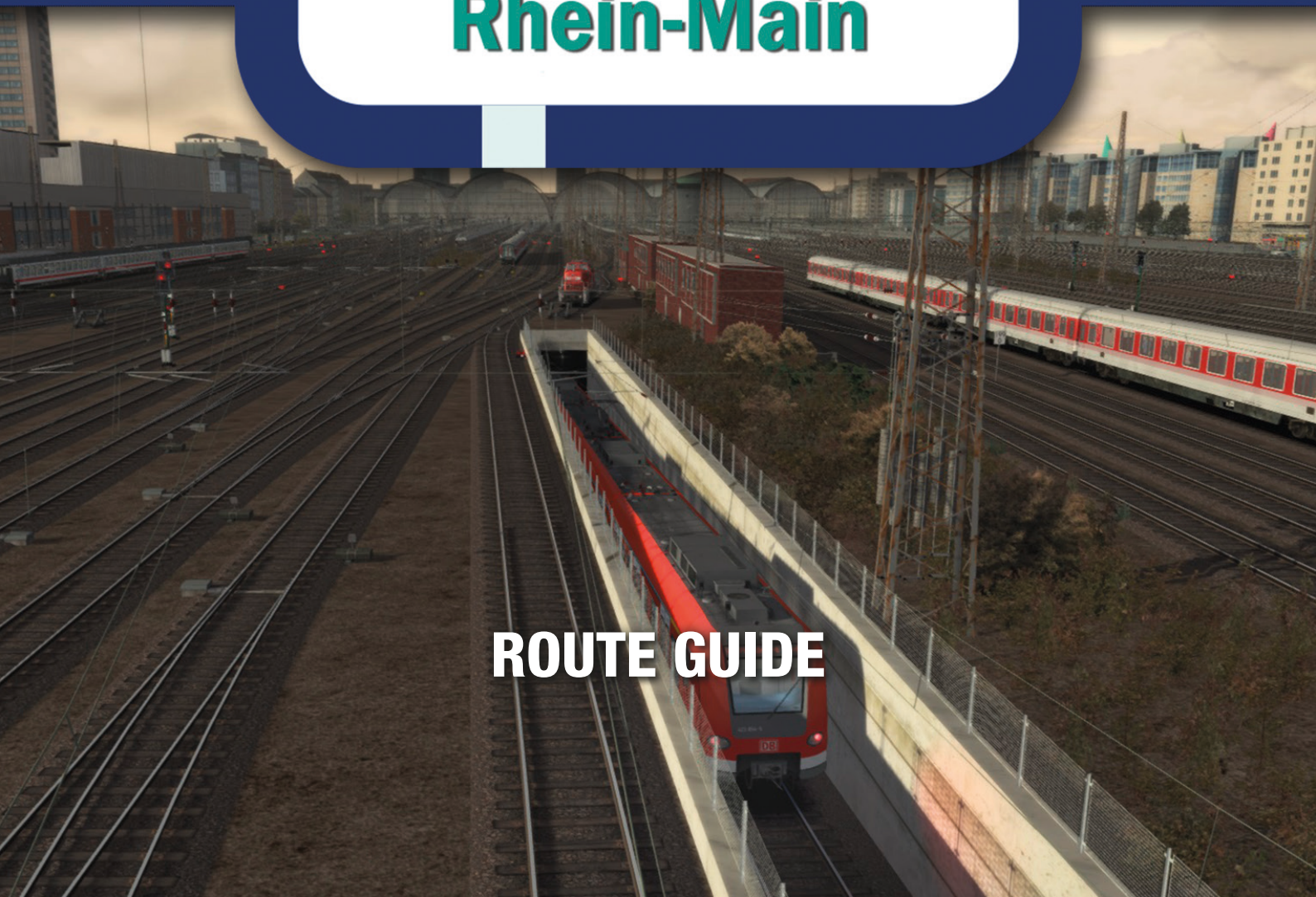




S-Bahn Rhein-Main



ROUTE GUIDE



Route Guide

Route expansion for Train Simulator 2018

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INTRODUCTION

Route



S5: Frankfurt Süd – Friedrichsdorf

S6: Frankfurt Süd – Friedberg



The S6 route travels on the Main-Weser-Bahn. Regional, long-distance, and freight services also use these tracks.

The route also includes Frankfurt Main Station (Hauptbahnhof or Hbf) as well as the branch line to Frankfurt Süd.

Services

The S-Bahn Rhein-Main commuter railway is made up of nine local lines that traverse Frankfurt. This Simulation covers two of the most important ones connecting the Taunus with Frankfurt, the S5 and S6.

The S6 starts in Friedberg and travels along the Main-Weser-Bahn. The S5 begins in Friedrichsdorf and follows the route down the hills towards Frankfurt. The system belongs to the Rhein-Main-Verkehrsverbund (RMV) and is operated by DB Regio AG, a subsidiary of Deutsche Bahn AG. Both routes are operated with BR423 Multiple Units. The two lines cover 29 stations in total, including the five big underground stations in the heart of Frankfurt where commuters can connect to several inner-city services like trams and underground lines. The line opened in 1978 and was soon extended beyond the river Main to Frankfurt Süd.

Lines	Length	Travel Time	Stations
S5	30 km	45 Min	17
S6	38 km	50 Min	21

Depots and Sidings



Stresemannallee

This siding is the one most commonly used for S5 and S6 trains. Trains are stored and cleaned here when not in use.



Frankfurt Außenbahnhof

This is the biggest depot on the network. Maintenance, cleaning and overhaul work is carried out here.

NOTES ON USING THE ROUTE

Train Simulator display settings

The display settings in Train Simulator must be adjusted correctly for the S-Bahn Rhein-Main network to be displayed properly.

To check the settings, go to the Main Menu, click on the Settings button and then click on the Graphics button.

Ensure the **Master Detail Level** slider is set to 'High' or higher. Press the Save button and return to the Main Menu.

Depending on your computer's specification, you may wish to increase or decrease the various graphical detail options to get the best performance.

Scenery Quality

Due to the high level of detail provided throughout U-Bahn Frankfurt, it is best to run the route at the highest settings possible. The **Scenery Quality** slider should ideally be set as far to the right as possible, as should the slider for **Scenery Density**.

The route will still run at lower settings, of course, but some of the assets may not be displayed as intended.

QUICK DRIVE

The S-Bahn Rhein-Main add-on is equipped for use with the Quick Drive option in Train Simulator 2018. To access this option from the Main Menu, press the 'Drive' button and then the 'Quick Drive' tab at the top left.

The Quick Drive menu

The top left area on the menu is where you select the train you wish to drive.

When the menu directly to the right of the train picture is clicked on, it shows the variations/consists available for the selected train displays in the right-side area of the menu. Click on the consist that you want to drive.

Selecting the route you wish to drive

When you have selected the train and consist you wish to drive, you then need to select the route.

The S-Bahn Rhein-Main route is called 'S-Bahn Rhein-Main' in the menus.

In the middle left area are the route selection menus. Click on the middle far left route picture. This will change the right hand area of the menu to display the routes that you have installed in Train Simulator 2018.

Choosing departure and arrival stations

Click on the route 'map' image directly to the right of the route picture. This will then show the available departure and arrival points for the route. You can select them by clicking on the ones you want.

Changing time and weather

Controls for changing the time of day and weather conditions are on the lower left area. You can use these to adjust the time and weather settings as you wish.

Driving

When you have made all your selections, press the 'Start' button on the lower right side of the menu and Train Simulator will load your settings.

IMPORTANT – Filters

In the Standard and Free Roam 'Drive' menus there are various locomotive and route filter options along the top of the right side. We strongly recommend that these are all set to '**None**' unless you are experienced in using them.

If you set a filter and forget to remove it, there is a strong possibility that not all your available locomotives and/or routes will display in the menu.

ROLLING STOCK

BR423

Included with the route is the BR423 manufactured by Adtranz, Alstom, ABB, Bombadier. Over 460 units were built between 1998 and 2007. It reaches a top speed of 140 km/h.



The BR423



Cab

- 1) Sander
- 2) Horn
- 3) High beam
- 4) Cab light
- 5) Saloon light
- 6) Manometer Brake cylinder, Main reservoir
- 7) Speedometer
- 8) Traction / Brakeforce
- 9) Indicator Lights
- 10) Door Control



- 1) Combined Throttle / Brake
- 2) Instrument Lighting
- 3) Reverser
- 4) Main Display Night/Day Mode
- 5) PZB Buttons Wachsam, Frei, Befehl
- 6) Main Switch
- 7) Pantograph
- 8) Spring-loaded brake
- 9) Battery
- 10) PZB On/Off
- 11) Sifa On/Off

Safety Systems

Sifa

The train is equipped with a 'Zeit-Zeit' (time) Sifa. That means you must reset the Sifa every 30 seconds.

If you don't reset the Sifa in time the train will apply emergency brake.

It's turned off at scenario-start, activate it by pressing **Shift + 7**

PZB 90

If you pass a yellow signal you have to press PZB Acknowledge. After that you have 23 seconds to reduce your speed below 85km/h.

If the next signal is red there will be a 500hz magnet 250m in front of it. You are allowed to pass it at 65km/h and then have to slow down below 45km/h within a distance of 153m. If you don't reduce your speed to less than the PZB speeds, the train will apply emergency brake.

For a better explanation please look at: <http://www.tf-ausbildung.de/BahnInfo/pzb90.htm> (German)

It is turned off at scenario-start, activate it by pressing **Shift + 8**

Train Destination Display (ZZA)

To change the Train Destination Display in the running game press **0** or **Shift + 0**.

If you want to set the destination display in Editor, just put the Code on the 4th place of the train number.

For example: 352d

Attention! Some destinations will not immediately be displayed in Editor. When starting the scenario the destinations will be displayed correctly.

Setting up the train

This multiple unit is normally fully set up when starting a scenario. Nevertheless there is still a full setup procedure:

1. Turn on battery
2. Put the reverser forward
3. Lift the Pantograph
4. Turn on main switch
5. Turn on lights
6. Release spring brake (press Button two seconds)

It also has a possibility to start the unit 'cold'. If you want that, just put 'cold' after the train number in the Scenario Editor. Then the Class 423 starts cold.

Changing cab

1. Apply spring brake
2. Turn off lights
3. Put reverser to 0
4. Change Cab
5. Put reverser forward
6. Turn on lights
7. Release spring brake (again, press the Button two seconds)

Door Control

The train comes with an automatic and manual door control. By default the automatic control system is activated. With **Ctrl + Shift + T** you can activate the manual system. With this the doors have to be opened with ',' for left or '-' for the right side of the train. Close the doors with '.'

Keyboard Shortcuts

Function	Key
Throttle / Brake	A / D
Reverser	W / S
Horn	B
Light	H / Shift + H
Hlghbeam	Ctrl + H / Ctrl + Shift + H
PZB On / Off	Shift + 8
PZB Wachsam	Page Down
PZB Frei	End
PZB Befehl 40	Delete
Sifa On / Off	Shift + 7
Acknowledge Sifa	Spacebar
Instrument Lighting	I
Cab Lighting	L / Shift + L
Wipers	V / Shift + V
Sander	X
Pantograph	P / Ctrl + Shift + P
Main switch On / Off	Z / Ctrl + Z
Train Destination Display (ZZA)	0 / Shift + 0
Door Control Activation	Ctrl + Shift + T
Open Doors left	,
Open Doors right	-
Close doors	.

SCENARIOS

1. S5 Bad Homburg – Frankfurt Süd

Summer, Clear

Start: 07:13

Duration: 45 Minutes

A morning rush-hour train to Frankfurt.

2. S5 Frankfurt Süd – Friedrichsdorf

Summer, Clear

Start: 10:07

Duration: 50 Minutes

Set up your train on the Frankfurt Süd sidings and drive your service to Friedrichsdorf.

3. S5 Friedrichsdorf – Frankfurt Süd

Autumn, Clear

Start: 16:05

Duration: 45 Minutes

Due to Track Works your train is diverted without stopping at West, Messe or Gallus. Go directly to Frankfurt HBF.

4. S6 Frankfurt Süd – Friedberg

Autumn, Stormy

Start: 20:20

Duration: 60 Minutes

A stormy autumn day from Frankfurt to Friedberg.

5. S6 Friedberg – Frankfurt HBF

Summer, Clear

Start: 14:00

Duration: 40 Minutes

The planned extension between Frankfurt West and Bad Vilbel is causing chaos. Keep an eye on signals and make your way to Frankfurt.

6. S6 Gross Karben – Frankfurt Süd

Autumn, Overcast

Start: 16:05

Duration: 55 Minutes

Drive your service from Gross Karben to Frankfurt. You will be overtaken at Frankfurter Berg. Make up some time.

DRIVING TUTORIAL

This short tutorial shows you how to operate the BR423.

Start Train Simulator 2018

Press '**Drive**'.

Press '**Quick Drive**'.

Click on the train menu and select the '**RWA BR 423**'.

On the consist menu, select the '**2x Frankfurt**'.

Press '**Confirm**'.

Click on the route menu and select '**S-Bahn Rhein-Main**'.

On the 'Depart' menu select '**S5 Frankfurt Süd**'.

On the 'Destination' menu select '**S5 Friedrichsdorf**'.

Set the season, weather and time to: '**Summer**', '**Clear**', '**13:30**'.

Press '**Start**' and Train Simulator will load.

When you are in the cab you need to set up the train:

This Train is already set-up at start. All you need to do is turn on the lights if needed. (**H Key**) and select your destination from the Destination Board by cycling through it with '**0**' and '**Shift+0**'.

Provided there are no red signals, we are now ready to depart.

Move the speed controller forward and accelerate but ensure you keep within the speed limit.

If you are using the [**F4**] HUD display power lever, these are the settings:

Between +100% and +10%	Accelerate
Between +2% and 0%	Neutral (no acceleration or braking)
Between -13% and -75%	Brake
At -100%	Emergency brake

Stop smoothly at the station at a given station and press the '**T**' key to open the doors, they will close automatically.

A green signal will mean the route is clear. A green and yellow signal means the next signal shows halt (red) or a speed limit is expected. A red signal means halt.

Continue this same routine until you reach your destination.

CREDITS

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Mathias Gundlach

TrainSimContent

All people who helped test this product.

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