DB/DR BR 93 $^{0-4}$
ÖBB Rh 693
for TS Classic

User Manual

Version 1.0 Build 20231201

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DB/DR BR 93[0-4] / ÖBB Reihe 693
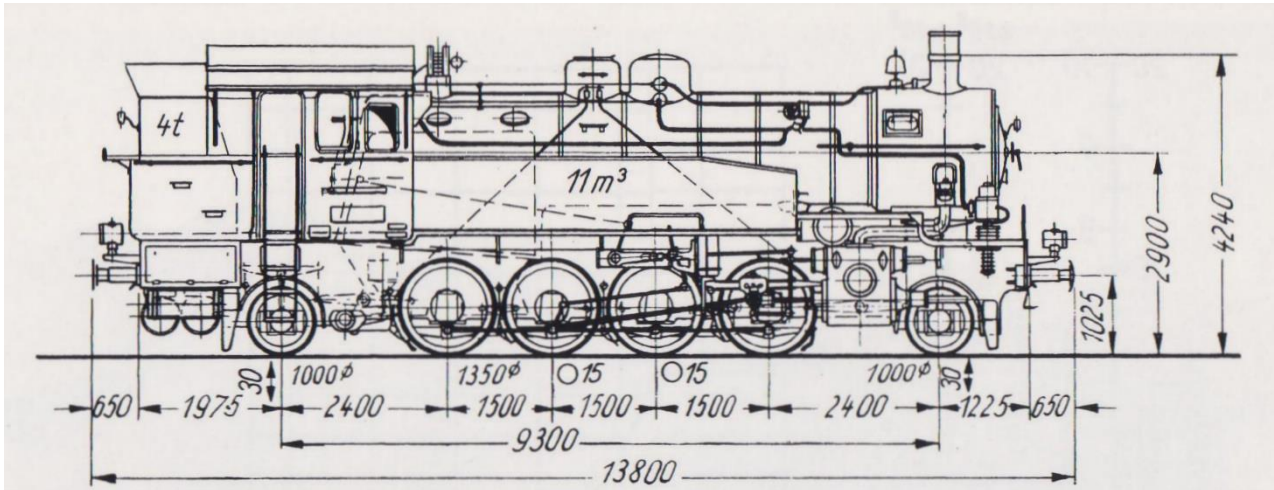
Around 1910, due to the sharp increase in traffic, the largest railway company in the then German Reich, which today is usually referred to as 'Königlich Preussische Eisenbahnverwaltung' (KPEV), had identified the need for heavier locomotives for various services. To this end, the usual orders were given to industry, which was now for the first time confronted with far-reaching standardization requirements, so that boilers and other components of this generation were interchangeable.

This gave rise to a number of well-known locomotive series, which in some cases would last for half a century, such as the P8, the later BR 38. As part of that program, a heavy tender locomotive, the T14, was also produced from 1914 on. It was designed to run rush hour and local train services, but was also intended for freight traffic on secondary sections. There was nothing wrong with the pulling power and other properties of this type, so that even when pulling long freight trains of 1300 tons, these machines could easily reach 50 km per hour. However, the construction could not be called a complete success because the weight distribution over the axles left much to be desired, for which the tracks of many German routes at the time was not prepared.

In 1945, at the end of WW2, many DRG-Locos ended up abroad when hostilities had been come to an end. In Austria, three BR 93s were pressed into service as Reihe 693 to resume railway operations after the devastation caused by the war.

Versie 1.0

Installation

The DB BR 930-4 from Wilbur Graphics is delivered as a .zip file and contains the following objects in addition to a Readme_EN.txt:

- Map Manuals\Wilbur Graphics with German, English and Dutch manuals:
`WG_DB_BR_93_0_4_Handbuch_V1_0.pdf`
`WG_DB_BR_93_0_4_Manual_V1_0.pdf`
`WG_DB_BR_93_0_4_Handleiding_V1_0.pdf`

- Installatieprogramma `WG_DB_BR_93_0_4_V10_20231201.exe`

Once the installation .exe has been activated, there are a few choices and input options:
- Language choice (Dutch/English/French/German)
- Acceptance of the License Terms (EULA)

Read the **release notes.txt** for recent changes, etc.

Useful tips

- Make sure that the zipped files are extracted before starting the installation.
- If the installation software cannot find the Railworks folder on your system, the reference to this folder in the Windows registry may no longer be valid. This situation occurs if you have moved the Steam environment to another computer or disc drive. You can solve this by repeating the installation of Steam.

TS Object Browser Index

| Scenario Editor Name	Folder	Object name
WG DB BR 93 0-4 152	Rollmat_de	WG_DB_BR_93_0_4_152
WG DR BR 93 0-4 037	Rollmat_de	WG_DR_BR_93_0_4_037
WG OBB Rh 693.425	Rollmat_OBB	WG_OBB_Rh_693_324

Preload Consists

WG DB BR 93 152	w/local passenger service
WG DB BR 93 152	w/Passenger local
WG DB BR 93 152	w/goods service
WG DB BR 93 152	w/ DB Omm + Ommr coal
WG DB BR 93 152	w/goods service (oil)
WG DB BR 93 152	Light engine
WG DR BR 093 8037	w/goods service
WG DR BR 093 8037	Light engine
WG OBB Rh 693 324	w/passenger local
WG OBB Rh 693 324	Light engine
WG OBB Rh 693 324	w/goods service
WG OBB Rh 693 324	w/ DB Omm + Ommr coal

The rolling stock objects for these *preload consists* are included with this release.

Cab layout

The air pump must be turned on before this locomotive can be driven (CTRL + 0 or handwheel 9).
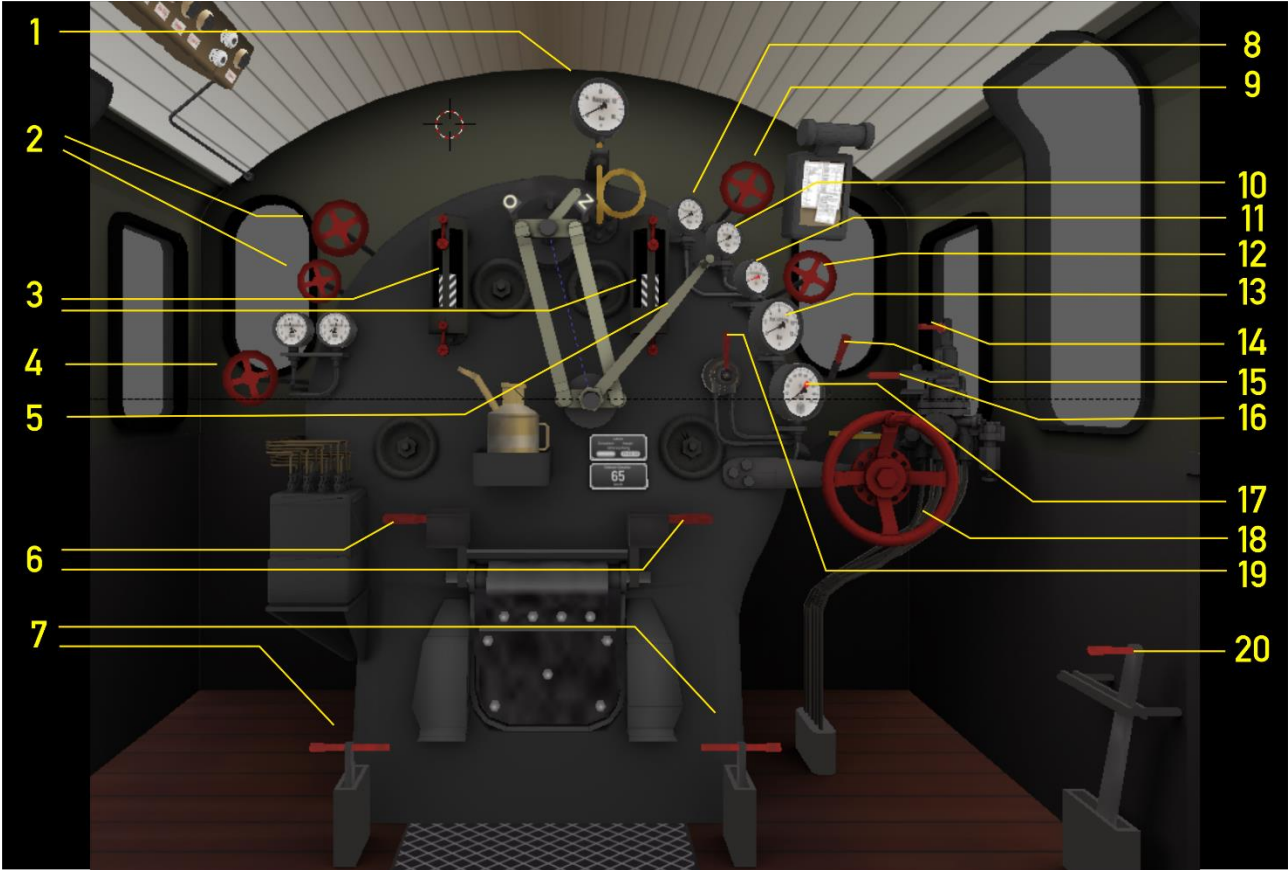
1	Manometer		12	Bell	B
2	Injectors		13	Brake pipe pressure	
3	Boiler level		14	Engine brake lever	[/]
4	Blower	Y/SHIFT+Y	15	Whistle, long	SPACE
5	Regulator	A / D		Whistle, short	N
6	Firebox handles	F/SHIFT+F	16	Train brake lever	: / '
7	Damper	M/SHIFT+M	17	Speedometer	
8	Steam chest pressure		18	Reverser	W / S
9	Compressor	CTRL+0	19	Sander	X
10	Brake cylinder pressure		20	Cylinder cocks lever	C
11	Main reservoir				

1	Train signals	H/SHIFT+H
2	Shunting signals	CTRL + F9
3	Panel lights	CTRL + F11
4	Cab light	CTRL + F12
5	Link motion lights	CTRL + F10

Step flaps animations

When building consists with the included *Spantenwagen* in the Scenario Editor (SE) or the QuickDrive menu (QD), it is important to combine the right variants. The animation type is indicated by the letter combinations *ug* and *ux*, where:

ug = working animation (indicated by green arrow in SE)
ux = dummy animation (indicated by a red arrow in SE)

Working and dummy animations look the same in the uncoupled state. However, the difference becomes visible when a carriages are coupled with their *ug* sides and the animation kicks in. Dummy transitions come in handy when a carriage is placed behind a decoy, or in submission on a train. However, coupling is always accomplished.

Scenarios

The rolling stock objects required for the scenarios mentioned here is part of this release. In order to run these scenarios, the Grenzlandbahn must already be installed:

https://www.trainworx.nl/product/wilbur-graphics-grenzlandbahn/
or
https://simtogether.com/store/product/109-grenzlandbahn/

Because TS always shows English text elements for Dutch users, we have created separate versions of our scenarios for these users, recognizable by the prefix [NL]. The English text building blocks have been replaced by Dutch translations.

Grenzlandbahn

Name	Soort	Type	Min.
51 [BR 93] Passenger Local Gölsdorf-Eckhagen	TT	P	45
[NL] 51 [BR 93] Stoptrein naar Eckhagen	TT	P	45

You will drive the 93 152 on the last leg of your local passenger service between Eckhagen and Gölsdorf. You will make regular stops at all stations along the way, but your service ends after arriving in Eckhagen.

Colofon and credits

Development and production:
© Wilbur Graphics, Henk van Willigenburg (www.wilburgraphics.com)

Sound effects WG steam engines:
© Michel R.

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