wilbur graphics
trainsim assets

ÖBB Series 77

for TS Classic

Manual

Version 1.0 Build 20251201

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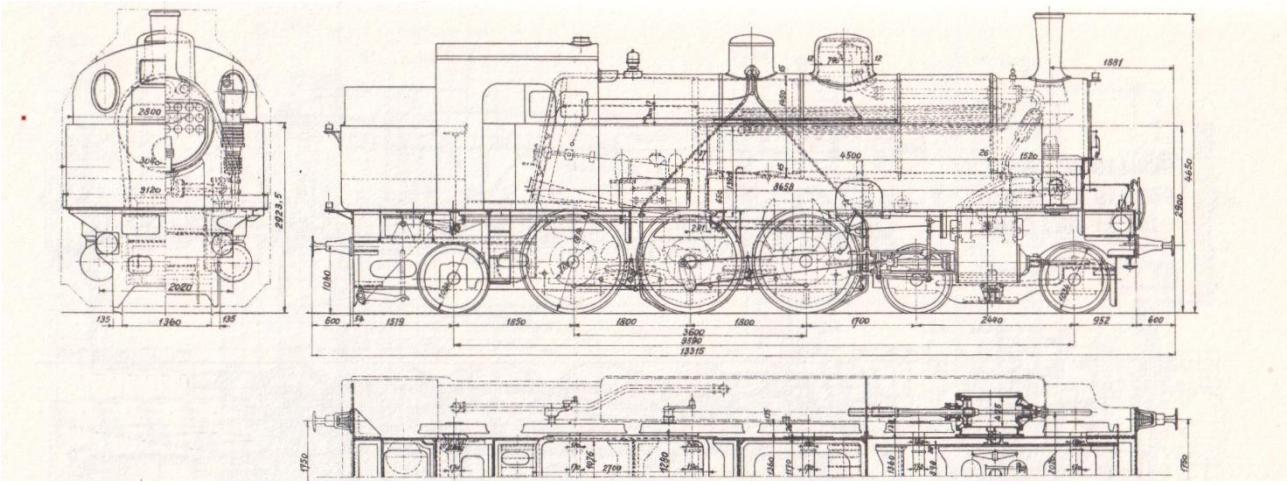
ÖBB Series 77



The class 629 steam locomotives composed of tender engines that were designed for the passenger service of the Austrian Südbahn (SB) shortly before the First World War. The type was later also purchased in larger numbers by the K. und K. Staatsbahnen (kkStB), the Bundesbahnen Österreichs (BBÖ), the ČSD and the PKP.

The later series (Reihe, Rh) 77 distinguished itself by smooth running, favorable consumption and high usability, but more specifically by its 4-6-2 axle arrangement. That choice was unique in two respects. In the first place because this configuration was actually only common for locomotives with separate tenders. These 'Pacifics', as they were often referred to, can be found in many large railway companies from the steam era. Secondly, we are dealing here with the only Austrian type where this axle arrangement has been applied. A small side note: in contrast to the 'pure' Pacific axle layout, the rear axle was not housed in a separate bogie but was incorporated into the frame as an 'Adam’s axle' with a lateral clearance of 45 mm.

A certain Ernst Prossy was responsible for the design and worked closely with the state railway rolling stock factory StEG in Vienna. The maximum speed was set at 85 km/h, although 110 km/h was easily reached during test runs. Later on, 90 km/h was allowed. The coal and water supplies were sufficient for a range of approximately 200 km. The first 15 machines appeared on the tracks in 1914. During the First World War, the then kkStB placed an order for another 10 machines of this type. In 1919, the Federal Republic of Austria was established as part of a peace treaty, but the country had to hand over large quantities of railway equipment to newly established states, including 15 class 629 locomotives to Czechoslovakia. In that country, the ČSD was founded as the national railway company, which had another 219 locomotives of this type built by Škoda, although with minor modifications.

Meanwhile, in Austria itself, after the collapse of the Habsburg Empire, the remaining inland railway network was transferred to the BBÖ, the successor to kkStB. This company continued the construction of the series, which increased the stock to 85 units. Finally, in the 1920s, the Polish Railways (PKP) ordered another 10 locomotives from Austrian industry. In total, more than 300 locomotives have been used by the railways involved in different series.

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From 1938 to 1945, the Austrian railways were part of the Deutsche Reichsbahn, but after the Second World War the annexation by Germany was reversed and the railway company came under the management of the ÖBB as we know it today. For various reasons, 76 units of the series, which had now been renumbered Reihe 77, remained in 1945. These locomotives served with the ÖBB in the 70s until the end of the steam era, of which, as with the class 93, a relatively large number have been preserved in museums. Among them are the 629.01 in SB version in running condition, but also two versions of the post-war Rh 77 that are also included in this add-on.

The Schlieren cars in this addon are a representation of an extensive series of rolling stock for domestic service that was manufactured in Austria under license from the "Schweizerische Waggonfabrik Schlieren" (SWS). The original type that was selected by the ÖBB in the 50s of the last century for the modernization of the rolling stock was known with the SBB as 'Einheitstyp I'.
These cars were still used by the ÖBB well into the eighties and underwent a midlife update, after which they appeared on the rails in a modern color scheme with ivory white and bright orange horizontal bands. However, our version goes back to the seventies, in which the boxes drove in their original color, but were provided with a UIC computer number with a check digit.

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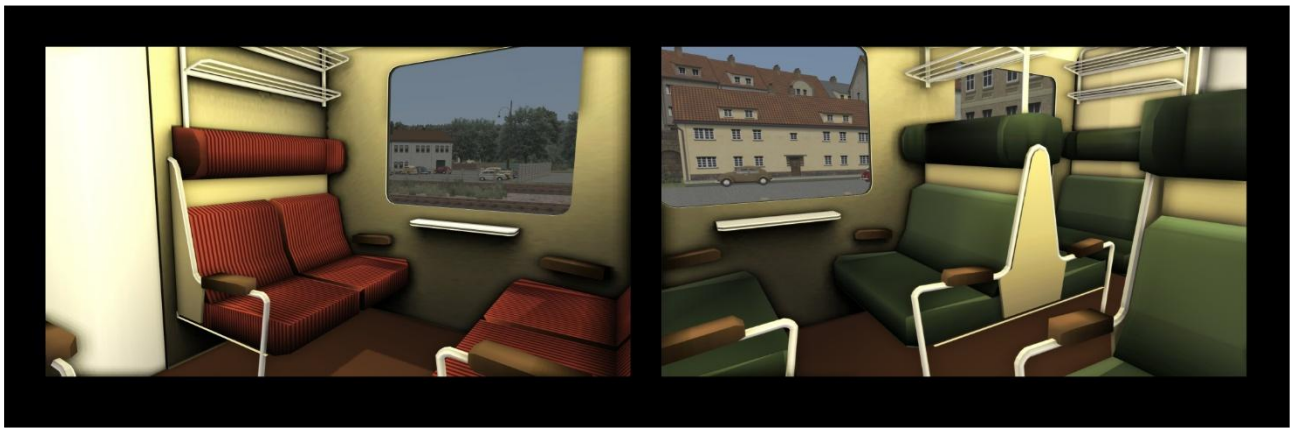

After the installation of the add-on, a number of 'preload' consists are ready to run, including the 1245 of Railworks Austria with a stock of Schlierenwagens and the 629 with 2-axle carriages from the Austrian WG program, the 'Spantenwagen' of which representatives are still driving in the Netherlands with the SHM and the VSM.

The historical and technical information in this handbook is taken from Wikipedia (https://de.wikipedia.org/wiki/SB_629).

Installatie

The ÖBB Reihe 77 from Wilbur Graphics comes as DLC in the form of an executable installation file. During the installation of this add-on, user manuals are placed in the Manuals\Wilbur Graphics folder with German, English and Dutch manuals. For the Reihe 77 you will find the following .pdf files there:

```
WG_OBB_Rh_77_Handbuch_V1_0.pdf
WG_OBB_Rh_77_Manual_V1_0.pdf
WG_OBB_Rh_77_Handleiding_V1_0.pdf
```

After the installatie-.exe from the .zip has been activated, some choices and input options follow:

- Language choice (Dutch/English/French/German)
- Acceptance of the License Terms (EULA)

Read the `Release_notes.txt` for recent changes, etc.

Some tips

1. Please note: the included consist with the ÖBB 1245 loco requires the installation of a freeware addon from Railworks Austria (https://www.railworks-austria.at).
2. Make sure that the zipped files are unzipped before starting the installation.
3. 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 disk drive. You can solve this by repeating the installation of Steam.

TS Object Browser Index

Scenario Editorname	Folder	Object name
WG K.k. OStE Rh 629.01	Rollmat_OBB	WG_KkstB_Rh629_01
WG OeBB Rh 77.23	Rollmat_OBB	WG_OeBB_Rh77_23
WG OeGEG Rh 77.28	Rollmat_OBB	WG_OeGEG_Rh77_28
WG OBB ABp 5081 37-35069	Rollmat_OBB	WG_OBB_ABp_5081_37_35069
WG OBB Apo 5081 17-35012	Rollmat_OBB	WG_OBB_Apo_5081_17_35012
WG OBB BDp 5081 85 35309	Rollmat_OBB	WG_OBB_BDp_5081_82_35034
WG OBB Bpo 5081 29-35259	Rollmat_OBB	WG_OBB_Bpo_5081_29_35259
WG OBB Bpz 5081 85-35309	Rollmat_OBB	WG_OBB_Bpz_5081_85_35309
WG OBB ABi-29 27 412 ugug	Rollmat_OBB	WG_OBB_ABi_29_27412_ugug
WG OBB ABi-29 27 412 uxug	Rollmat_OBB	WG_OBB_ABi_29_27412_uxug
WG OBB DBi-29 47 563 ugug	Rollmat_OBB	WG_OBB_BDi_29_47563_ugug
WG OBB DBi-29 47 563 uxug	Rollmat_OBB	WG_OBB_BDi_29_47563_uxug
WG OBB Bi-29 37 408 ugug	Rollmat_OBB	WG_OBB_Bi_29_37408_ugug
WG OBB Bi-29 37 408 uxug	Rollmat_OBB	WG_OBB_Bi_29_37408_uxug
WG OBB Bi-29 37 512 ugug	Rollmat_OBB	WG_OBB_Bi_29_37512_ugug
WG OBB Bi-29 37 512 uxug	Rollmat_OBB	WG_OBB_Bi_29_37512_uxug

Explanation of the abbreviations *ugug* and *uxug* can be found later in this manual under 'Transition animations'.

ServiceApproaching
Service14
ÖBB
77.23

ÖGEG
77.28

Apo
ABpo
Bpo
Bpz
BDp

Preload Consists

WG RWA OBB 1245	w/ Schlierenwagen	(Express Passenger)
WG OeBB Rh 629.01	w/Spantenwagen	(Preservation Special)
WG OeBB Rh 77.23	w/Schlierenwagen	(Express Passenger)
WG OeGEG Rh 77.28	w/Spantenwagen	(Preservation Special)
WG OeBB Rh 93.1332	w/Schlierenwagen	(Regional Passenger)

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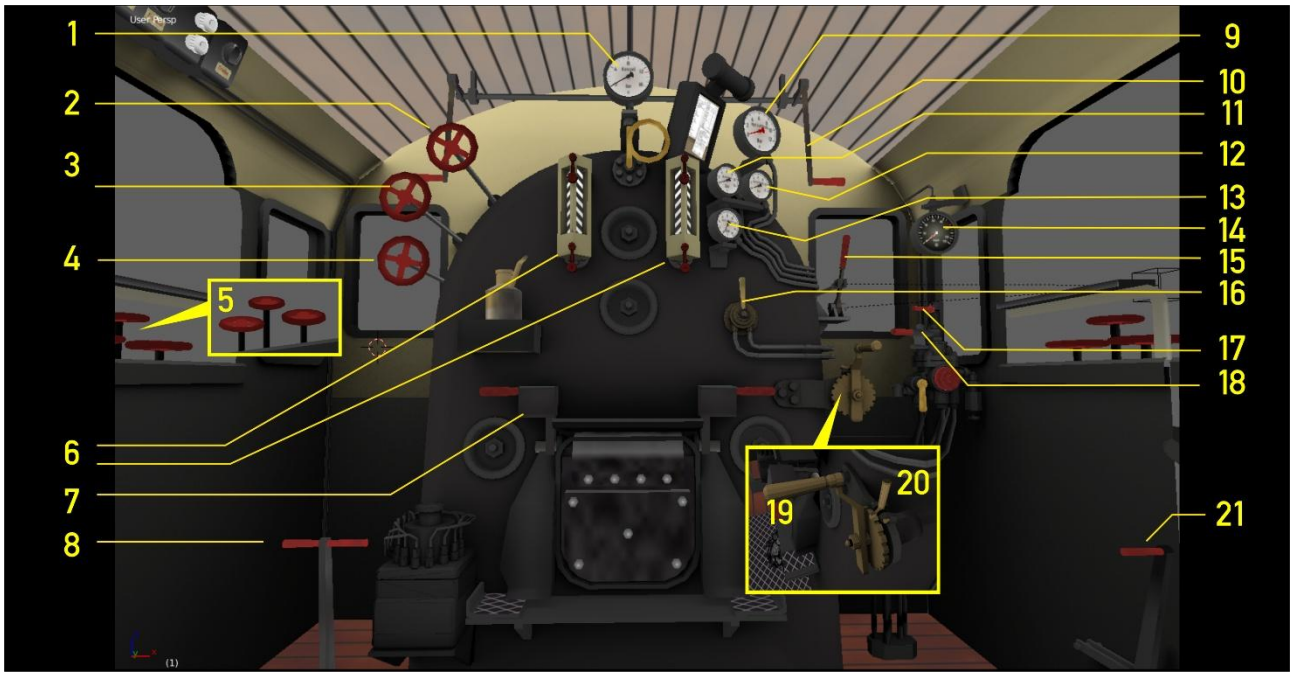
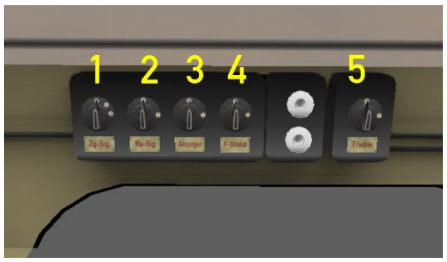
Cab Layout

The cab layout in this TrainSimulator release follows the TS Classic standard (expert mode) and may therefore deviate from the original in parts. The cab, panel and gear lighting is operated from a special panel on the left side of the cab. Initially, the locomotive displays shunting signals. These can be switched on or off with a separate switch. The operation of front and tail lights is TS-compliant. Shunting signals are automatically extinguished when headlights are switched on.

The compressor must be turned on before you can drive the loco (handwheel 3 or CTRL + 0).



1	Boiler pressure		11	Brake cylinder pressure	
2	Generator (linked with 3)		12	Brake pipe pressure	
3	Compressor	CTRL+0	13	Steam chest pressure	
4	Blower		14	Speedometer	
5	Injectors	Y/SHIFT+Y	15	Regulator	A / D
6	Boiler water level		16	Sander	X
7	Firebox door handles	F/SHIFT+F	17	Loco brake	[/]
8	Dampers	M/SHIFT+M	18	Train brake	: / '
9	Main reservoir		19	Reverser	W / S
10	Whistle, long	SPACE	20	Reverser lock	Q
	Whistle, short	B	21	Cylinder cocks	C



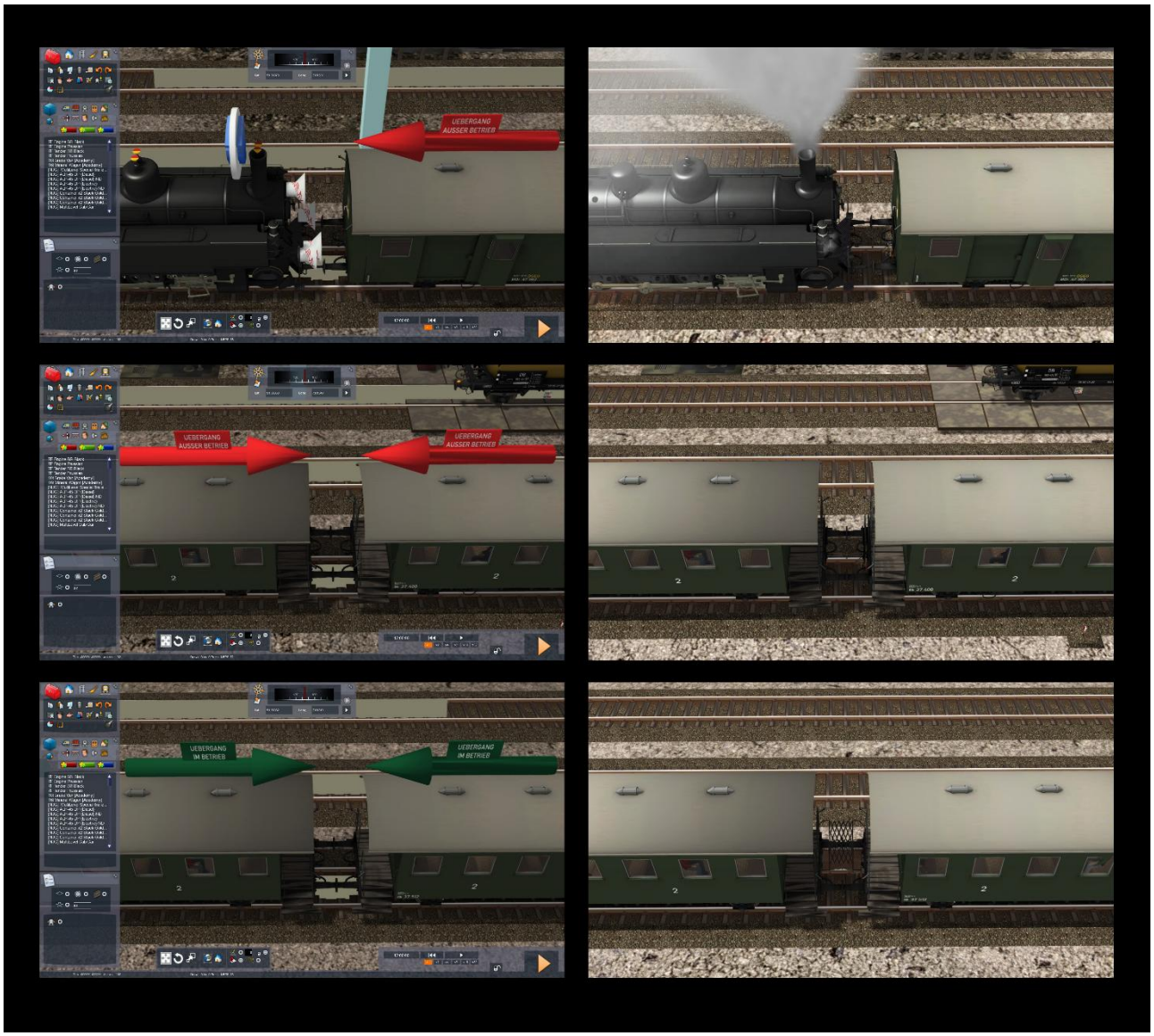
1	Train lights	H/SHIFT+H
2	Shunting lights	CTRL + F9
3	Panel lights	CTRL + F11
4	Cab lights	CTRL + F12
5	Link motion lights	CTRL + F10

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 loco, or in transfer with a train. However, coupling is always accomplished.



Colophon and credits

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

Sound effects WG steam engines:
© Michel R.

Tips and advice:
ChrisTrains.com
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Testing:
Michael Wagner, Doschi, Reinhart190953

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