

# OBB Series 93

## for TS Classic



# Manual

Version 1.1 Build 20230610

## Contents

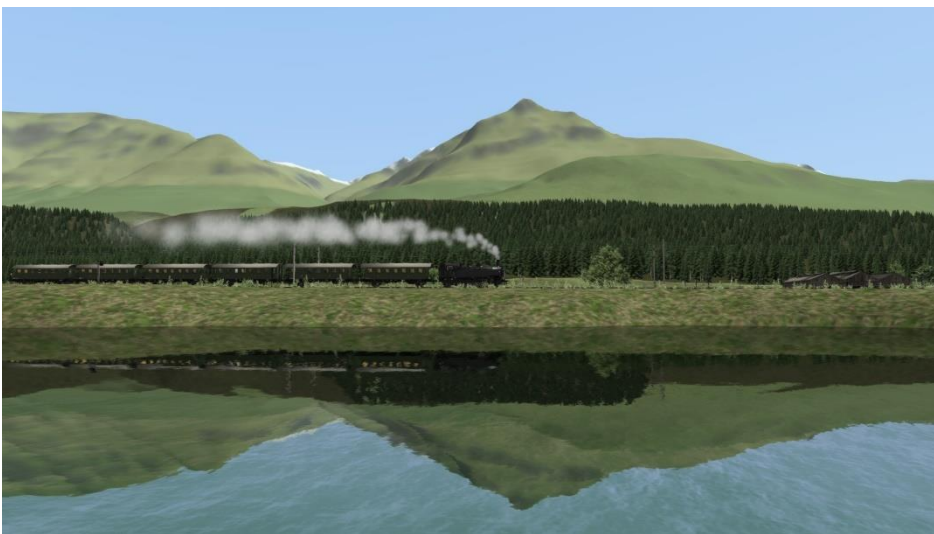
ÖBB Series 93.....	3
Installation.....	4
TS Object Browser Index .....	5
Cab view .....	8
Step flaps animations .....	9
Colofon and credits .....	10

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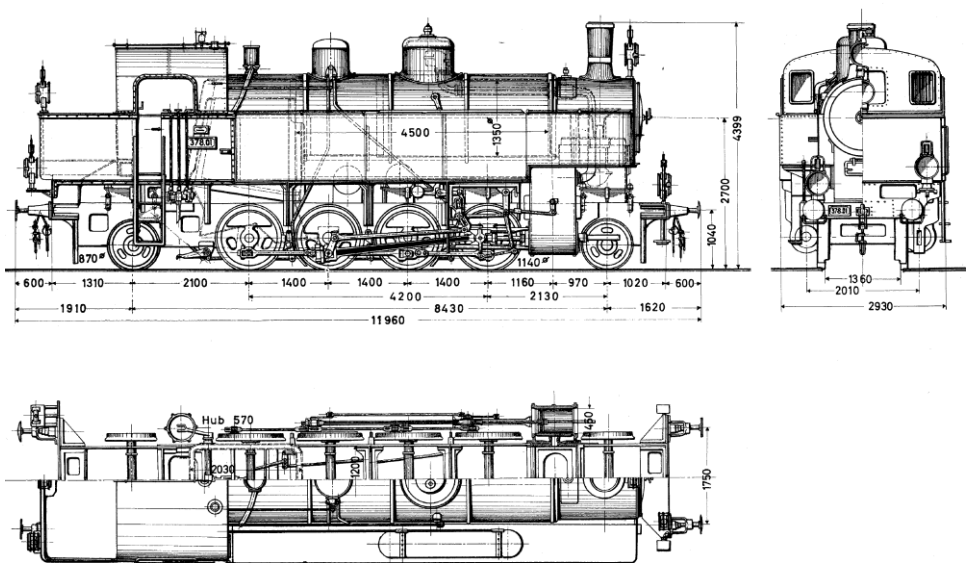


# ÖBB Series 93

By 1927, numerous engine types operating on Austrian branch lines were technically outdated and caused not only high maintenance cost but also frequent failures of train services. The then BBÖ therefore had the *Lokomotivfabrik Floridsdorf* designed a modern tank engine according to the latest technical insights in order to replace the aging locos. In view of the low permitted axle pressure of most local railway sections, this became a locomotive with four driving axles and a running axle in front and behind (2-8-2, 1' D1'h ), which was given the series designation 378. A striking feature were the wheels, which were produced as one casting, without spokes.

All Austrian locomotive builders were involved in the production of no less than 167 machines from 1927 to 1931. In 1938, after the annexation of Austria by Nazi Germany, the locomotives were incorporated into the DRB stock as BR 93 1301 – 1467. Until the official end of steam in Austria (31.12.1976), the 128 units remaining in that country after the war were redesignated as *Reihe 93* and constituted the largest series of steam locomotives in service with the ÖBB. A relatively large number of them have been preserved as museum objects or even in operating state, so that the type will still be on show in railfan specials. This add-on is completed by the original versions of the two-axle coaches known as the 'Austrians' by the Dutch museum railway VSM and referred to in their country of origin as *Spantenwagen*.

The layout of the cab follows the TS Classic standard (expert mode) and can therefore differ in parts from the large example. The operation of the cab, panel and drive lights follows from a special panel on the left side of the cab. Initially, the locomotive will display shunting signals, which can be switched on or off. The operation of head and rear lights is TS-compliant. When these are shown, the shunting signals are automatically turned off.



# Installation

Wilbur Graphics' ÖBB Reihe 93 comes as DLC in the form of an executable installation file. During the installation of this add-on, the user manuals are placed in the `Manual\Wilbur Graphics` folder with German, English and Dutch manuals. For the Reihe 93, you will find the following .pdf files there:

WG\_OBB\_Rh\_93\_Handbuch\_V1\_1.pdf  
WG\_OBB\_Rh\_93\_Manual\_V1\_1.pdf  
WG\_OBB\_Rh\_93\_Handleiding\_V1\_1.pdf

After the installation .exe for the bundle is activated, here are some choices and options:

- Language selection (Dutch/English/French/German)
- Acceptation of the License Terms (EULA)

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

## Some tips

- Make sure that the zipped files have been unpacked 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 disk drive. You can solve this by repeating the installation of Steam.

# TS Object Browser Index



Scenario Editor name	Folder	Object name
<b>WG OBB 93.1332</b>	Rollmat_OBB	WG_OBB_Rh_93_1332
<b>WG OBB 93.1345</b>	Rollmat_OBB	WG_OBB_Rh_93_1345
<b>WG OBB 93.1360</b>	Rollmat_OBB	WG_OBB_Rh_93_1360
<b>WG OBB 93.1403</b>	Rollmat_OBB	WG_OBB_Rh_93_1403
<b>WG OBB 93.1420</b>	Rollmat_OBB	WG_OBB_Rh_93_1420
<b>WG OBB 93.1421</b>	Rollmat_OBB	WG_OBB_Rh_93_1421
<b>WG OBB 93.1455</b>	Rollmat_OBB	WG_OBB_Rh_93_1455
<b>WG WTB 93 1360</b>	Rollmat_OBB	WG_WTB_Rh93_1360
<b>WG OBB ABi-29 27 412 ugug</b>	Rollmat_OBB	WG_OBB_ABi_29_27412_ugug
<b>WG OBB ABi-29 27 412 uxug</b>	Rollmat_OBB	WG_OBB_ABi_29_27412_uxug
<b>WG OBB BDi-29 47 563 ugug</b>	Rollmat_OBB	WG_OBB_BDi_29_47563_ugug
<b>WG OBB BDi-29 47 563 uxug</b>	Rollmat_OBB	WG_OBB_BDi_29_47563_uxug
<b>WG OBB Bi-29 37 408 ugug</b>	Rollmat_OBB	WG_OBB_Bi_29_37408_ugug
<b>WG OBB Bi-29 37 408 uxug</b>	Rollmat_OBB	WG_OBB_Bi_29_37408_uxug
<b>WG OBB Bi-29 37 512 ugug</b>	Rollmat_OBB	WG_OBB_Bi_29_37512_ugug
<b>WG OBB Bi-29 37 512 uxug</b>	Rollmat_OBB	WG_OBB_Bi_29_37512_uxug

An explanation of the abbreviations *ugug* and *uxug* can be found later in this manual under 'Step flaps animations' (p. 9).





The differences between the versions of the 93-er are summarized in the table below:

	1332	1345	1360	1360	1403	1420	1421	1455
<b>Owners</b>	ÖBB	ÖBB	ÖBB	WTB	ÖBB	ÖBB	ÖBB	ÖGEG
<b>Wheels</b>	Red	Black	Black	Red	Red	Black	Red	Black
<b>Giesl Ejector</b>	Yes	Yes	No	No	Yes	No	No	No
<b>Top head light</b>	Smoke-box	Smoke-box	Smoke-box	Smoke-box door	None	Smoke-box	Smoke-box	None
<b>Large projectors</b>	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
<b>Railing bars</b>	Blank	Blank	Blank	Blank	Red	Red	Blank	Blank
<b>Buffers</b>	Guided	Guided	Rod	Rod	Guided	Guided	Guided	Guided
<b>MPD</b>	Wr. Neustadt	Wr. Neustadt	Linz	Bw Fützen	Strasshof	Linz	Villach	Wr. Neustadt
<b>Nr. split at smokebox door</b>	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

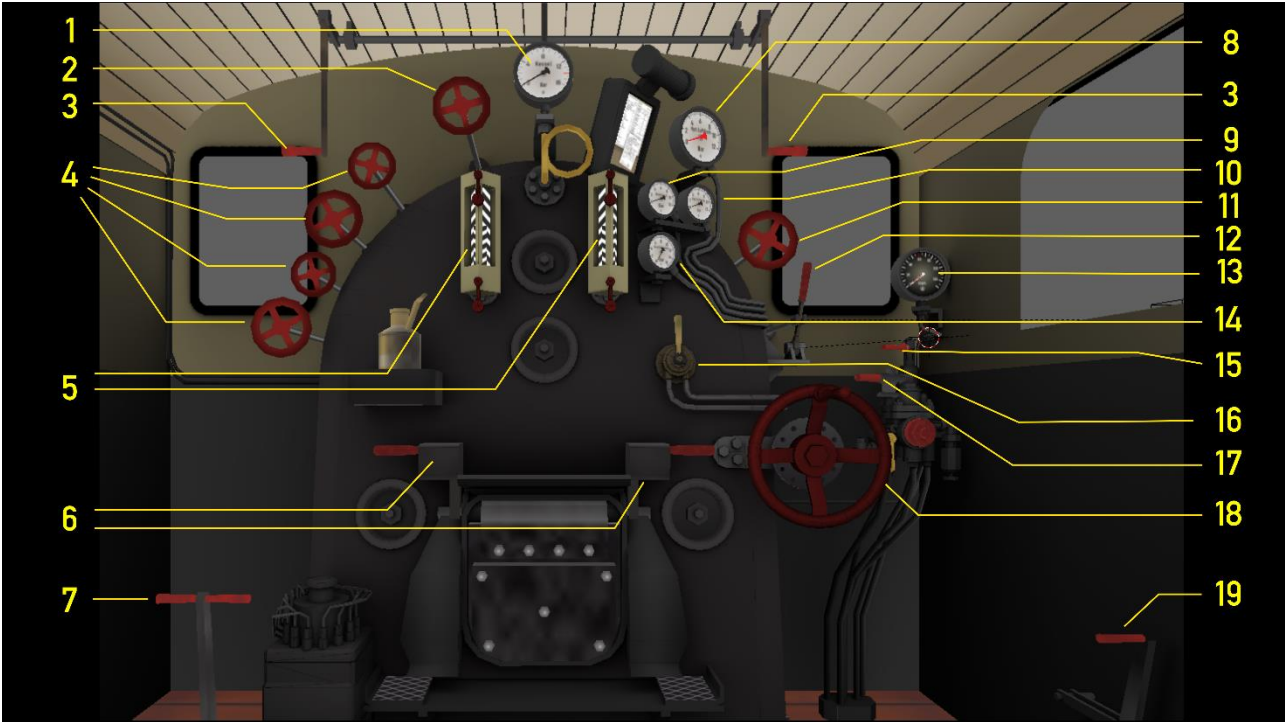
## Preload Consists

- WG OBB Rh 93 1332 w/goods service
- WG OBB Rh 93 1332 light engine
- WG OBB Rh 93 1332 w/passenger local
- WG OBB Rh 93 1345 light engine
- WG OBB Rh 93 1360 light engine
- WG OBB Rh 93 1403 light engine
- WG OBB Rh 93 1420 light engine
- WG OBB Rh 93 1421 w/goods service
- WG OBB Rh 93 1421 w/ DB + NS coal wagons
- WG OBB Rh 93 1421 light engine
- WG OBB Rh 93 1421 w/passenger local
- WG OBB Rh 93 1455 light engine
- WG WTB BR 93 1360 light engine



# Cab view

The compressor must be turned on before you can drive the locomotive (hand wheel 11 or CTRL + 0).



1	Boiler pressure		10	Brake pipe pressure	
2	Blower	Y/SHIFT+Y	11	Compressor	CTRL+0
3	Whistle, long	SPACE	12	Regulator	A / D
	Whistle, short	N	13	Speedometer	
4	Injectors		14	Steam chest pressure	
5	Boiler level		15	Auxiliary brake	[ / ]
6	Firebox handles	F/SHIFT+F	16	Sander	X
7	Damper	M/SHIFT+M	17	Train brake lever	: / '
8	Main reservoir		18	Reverser	W / S
9	Brake cylinder pressure		19	Cylinder cocks lever	C



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 carriage is 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.



# Colofon and credits

## Development and production:

© Wilbur Graphics, Henk van Willigenburg ( [www.wilburgraphics.com](http://www.wilburgraphics.com) )

## Sound effects WG steam engines:

© Michel R.

## Tips and advice:

ChrisTrains.com

TrainworX (Paul Mersel)

Ton van Schaik

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Ton van Schaik, Reinhart190953

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