

DB construction train '3yg'

Version 1.0 / 15.12.2022



Manual

Background - Pack Contents -
How to install - Dynamic Numbering -
Features - Policies - Credits



POLYGONZUG

Feine Modelle für Eisenbahnsimulatoren

Background

Even before the retirement of the last three-axle rebuild coaches from passenger train services, approx. 2,000 3yg wagons were converted for construction use in the Offenburg, Kassel and Weiden (Upper Palatinate) repair works between 1969 and 1984.

The wagons were equipped for a wide variety of purposes (construction supervisor wagon, construction crew leader wagon, office wagon, living-sleeping wagon, recreation wagon, equipment wagon, workshop wagon, washing-drying wagon, kitchen side wagon, changing room wagon, etc.) and served as temporary accommodation and workshop near railway construction sites.

They initially remained chrome oxide green (RAL 6020) and were painted ocean blue (RAL 5020) from the 1970s. Later, some wagons became golden yellow (RAL 1004). To this day, some examples are still in use for DB Bahnbau or by private track construction companies.

quoted from: Wikipedia article "Umbau-Wagen"

During the prototype research, it became apparent that there was a great variety of construction wagons in general. Therefore, a representative selection of the most important types had to be realised in the model. Criteria for this were: high numbers of units, meaningful documentation through photos and/or the requirement to be able to put together a "complete" construction train in the simulator.

After identifying these types of construction, it became clear that even within the series there were sometimes major differences in the external appearance. Probably due to the three manufacturers, but also due to changes in the course of use, which can no longer be easily traced today.

The realisation in the model is therefore somewhat subject to compromise; however, improvements are conceivable if new prototype material is available.

Die Modelle

This car set contains 12 models of construction train cars based on three-axle rebuild coaches of the former German Federal Railways, Era IV - VI. Included are the following types, classified by the DB as railway service cars:

Bdw 407	(construction crew leader wagon)	Bdw 467	(living/equipment wagon)
Bdw 416	(office wagon)	Bdw 477	(living/workshop wagon)
Bdw 423	(living/sleeping wagon)	Bdw 480	(living/workshop wagon)
Bdw 427	(living/sleeping wagon)	Bdw 485	(washing/shower wagon)
Bdw 430	(living/sleeping wagon)	Bdw 507	(kitchen wagon)
Bdw 454	(recreation wagon)	Bdw 517	(kitchen side wagon)

There are two variants of all wagon designs::

Operating condition: window blinds open, additional step, interior lighting at night, heating steam in autumn and winter, yellow flag on the first and last car of a train set

Running condition: Window blinds closed, additional step in parking position, car interior unlit, signal Zg2 on the last car of a train set - depending on the era, train rear lantern with day-night change or rear signs can be selected.



Features and functions:

- dynamic numbering: wagon number, home location and train destination sign
- dynamic DB logo in different versions
- detailed coupler model with dynamic brake hoses and steam heating connection (1)
- custom sound set and extensive scripted functions
- individual textures with traces of weathering and ageing

(1) only operating if vehicles contained in this pack are coupled; also working with all other rolling stock products

made by *Polygonzug*.

Pack Contents



Bdw 407 - Construction crew leader wagon



Bdw 416 - Office wagon



Bdw 423 - Living/sleeping wagon



Bdw 427 - Living/sleeping wagon



Bdw 430 - Living/sleeping wagon



Bdw 454 - Recreation wagon

Pack Contents



Bdw 467 - Living/equipment wagon



Bdw 477 - Living/workshop wagon



Bdw 480 - Living/workshop wagon



Bdw 485 - Washing/shower wagon



Bdw 507 - Kitchen wagon



Bdw 517 - Kitchen side wagon

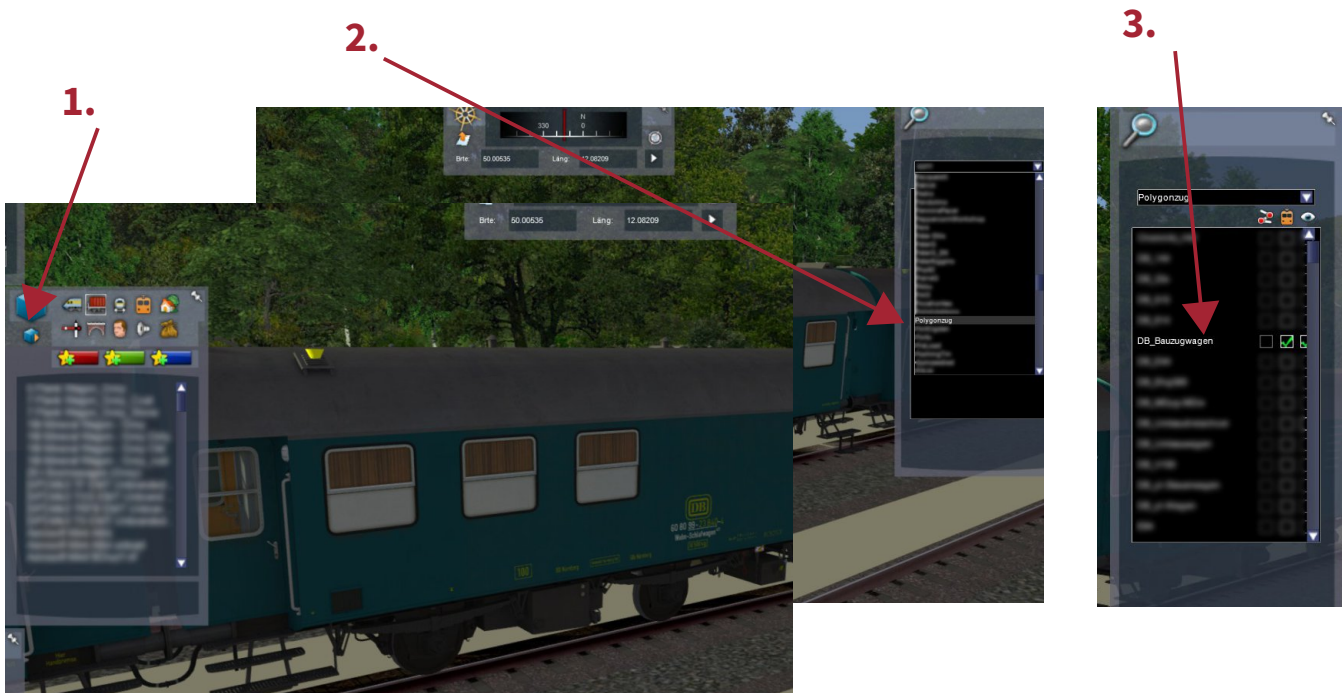
How to install

To install the models, simply run the downloaded installation file.

Note for scenario creators:

In order to use the coaches of this pack in your own scenarios, you must first activate them in the scenario editor:

1. Click on the little blue cube with the orange triangle in the left middle flyout of the Scenario Editor (activate object set filter)
2. A flyout should appear on the right side of the screen; scroll down to the list entry 'Polygonzug' and click on the text line
3. Tick the second and third option box in the line "DB_Bauzugwagen" das mittlere Optionskästchen anklicken. When the green tick is set, the wagons can again be selected in the middle left flyout (the names start with PZ_)



Dynamic Numbering

Setting options:

Wagons set in the scenario editor are already preconfigured with a prototypical wagon number and home station (source: www.revisionsdaten.de) as well as the DB logo of era IV. .

If you want to change one or more of these variables, please proceed as follows.

1. place the desired wagons on the tracks as described on page 6.
2. double-click on the respective wagon to open a flyout at the top right edge of the Railworks window in which an eight-digit combination of letters and numbers in this format appears:

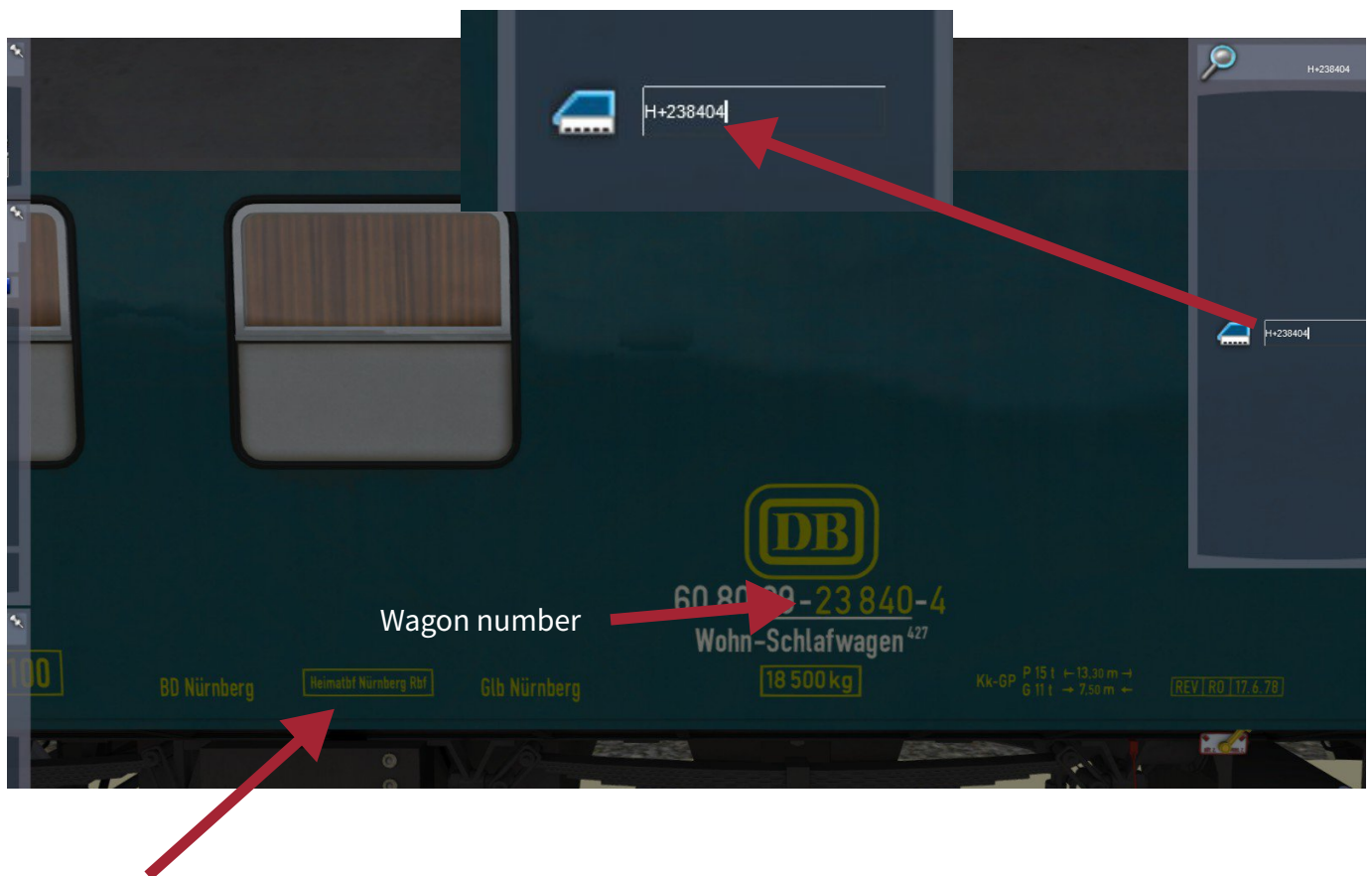
Xx111111

You can now make individual changes here.

The **first character** represents the **home location** and must be entered as a capital letter.

The **second character** represents the **DB logo** and must be entered as a special character (list of setting options on page 8).

The **third to eighth digits** represent the **wagon number + check digit**. Please be sure to enter numbers here!

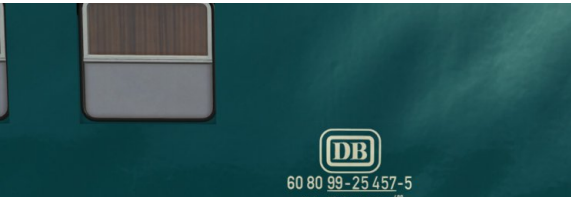


Home location (directoriate, station und department)
(For a list of all setting options, see page 8)

Dynamic Numbering

Home stations and DB logos - list of all available settings:

	home location	railway directorate	DB logo	
A	Duisburg-Wedau	Essen	+	beige logo of the seventies and eighties
B	Hanau	Frankfurt a.M.	~	red logo used from 1986 on
C	Hannover-Leinhausen	Hannover	-	current logo
D	Hamburg-Harburg	Hamburg		
E	Karlsruhe	Karlsruhe		
F	Opladen	Köln		
G	Augsburg-Oberhausen	München		
H	Nürnberg Rbf	Nürnberg		
I	Homburg (S)	Saarbrücken		
J	Heilbronn	Stuttgart		





Features

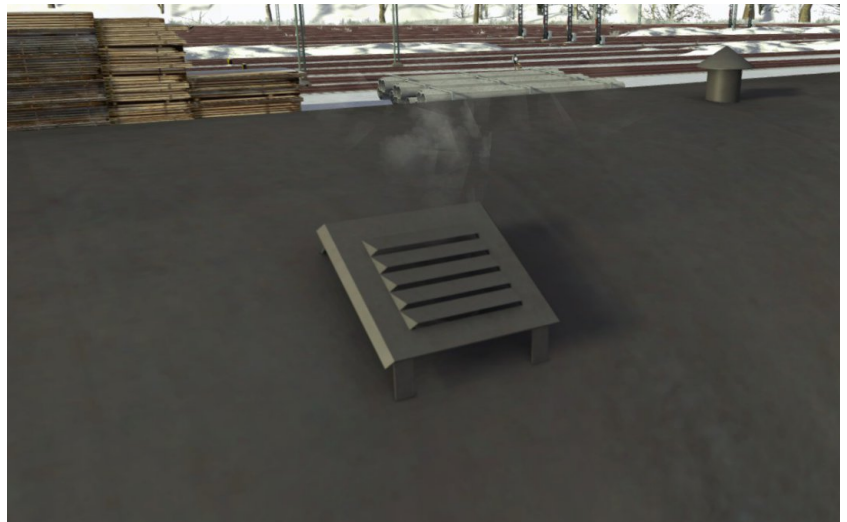
Night view of the wagons in operation:

- Interior lighting
- Lights next to the entrances



Heating steam:

Wagons in operational condition in autumn and winter show steam rising from the chimneys of the oil furnaces installed in the wagons.



Couplers and vehicle connections:

Brake hoses and steam heating couplings are automatically connected between models contained in this pack and also between them and other Polygonzug products.



Policies

Important notes about use:

These models have been tested on several computers and are at least compatible with Train Simulator versions 2014 to 2022 or with "Train Simulator Classic"; ; general operation or operation without strange effects can not be guaranteed in older versions of the program.

I assume no liability for the correct function on user's computers as well as for damage to hardware and software that may arise from the use of the contents of this addon.

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Credits

Persons involved:

Modelling/ Textures/ Blueprints/ Sound/ Scripting: Heiko Müller

Sound sources: Heiko Müller, Ganderkeseeer, Gainmaster

Installer: Ulf Freudenreich, virtualRailroads

Versionen:

1.0 first release (15.12.2022)

Polygonzug, December 2022

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