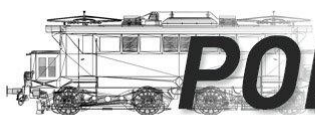# DB auxiliary emergency vehicle Ehg388

Version 1.1 / 09.01.2020

Manual

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

POLYGONZUG
Feine Modelle für Eisenbahnsimulatoren

Ehg388 (60 80 99 27 057-1), Koblenz, 10.8.2015
© Heiko Müller

Just like the luggage and express goods vans of the MDie and MDyg types, the standard auxiliary equipment vehicles were a pragmatic solution for responding relatively quickly to the severe shortage of rolling stock after the end of the Second World War. Until the end of the 1950s, converted older passenger cars or goods wagons, were typically used as auxiliary equipment wagons; in the event of operational disruptions or accidents, they were used to remove obstacles, clear accident sites and provide general technical assistance.

At the end of the 1950s, the German Federal Railway, in cooperation with the Federal Railway Central Office in Minden, for the first time completely designed an auxiliary emergency vehicle. It was built according to the same principle as the aforementioned MDie type luggage and express goods vans: two bodies of each of the decommissioned MCi-43 auxiliary passenger coaches were assembled and placed on newly built floor frames. Their characteristic appearance - steel box frame with wooden panelling - revealed their origin from goods wagon construction at first glance. As with the MDie/MDyg, used bogies of American design, also known as "gooseneck bogies", were installed.

A total of around 100 vehicles were built by 1966 and distributed throughout the entire network of the German Federal Railways. It is remarkable that the outward appearance of the cars has hardly changed over the decades. On many (most?) examples, the wooden walls have been replaced by laminated wood panels since the end of the 1960s, so that they largely corresponded to the appearance of the MDyg, but apart from that, basically only the paintwork has changed over time. Nevertheless, almost all vehicles differed from each other in small details, sometimes parts from other coaches were used, and there were even some real oddities... Last but not least, it is likely that the service departments of the vehicles have made some minor individual adjustments. In any case, all known prototype photos show small differences. The models of this package, however, reproduce cars that are more of a "standard".

Colour scheme
When delivered, all vehicles were green and have been later - probably during the 1970s - repainted in yellow. And this striking yellow colouring was even retained on some of the cars until well after the turn of the millennium.
The auxiliary emergency vehicles were indispensable for such a long period of time that many of them were even repainted in traffic red (not least because new rolling doors were installed, giving the vehicles a much more modern look).
It was not until the 2010s that the last major phase-out wave took place; however, a few vehicles are still in use and will continue to operate reliably in the event of major or minor breakdowns.

Pack Contents

This pack contains the following models of the auxiliary emergency vehicle series Ehg388, built and operated by the former "Deutsche Bundesbahn" (German Federal Railway), era ~1970 - 1993 and DB AG since 1994.

All five model variants are also supplied in "operational condition" - i.e. with exterior and interior lighting switched on. Thus, the package contains a total of 10 models.

Features and functions:

- dynamic numbering: wagon number and home location
- dynamic DB logo in different versions, prototypical only for the yellow car with wooden plate body
- highly detailed coupler model with dynamic brake hoses and steam heating connection (1)
- prepared for steam heating (leaking) effect (2)
- custom sound set
- all Ehg388 are fitted with switchable head lights (for pushed services to the place of the 'incident')
- all yellow and green versions have switchable tail lights (standard control "H"), the traffic-red versions have tail end indicators, which appear automatically as soon as these cars are attached at the rear of the train
- simple interior, partly with night lighting
- individual textures with traces of weathering and ageing

(1) only operating if vehicles contained in this pack are coupled; also working with other rolling stock products made by *Polygonzug*.
(2) requires a locomotive with a specific and compatible control to turn the train heating on and off.

Pack Contents

Ehg388 - variant 1:

- oldest version of the vehicle with wooden planking
- older DB logo
- steam heating couplings

Ehg388 - variant 2:

- yellow livery of the era ~1970-90 with wooden planking
- black DB logo
- steam heating couplings

Ehg388 - variant 3:

- wooden plate body
- due to the long life of the prototype in this livery, these version is available with different DB logos
- steam heating couplings

DB auxiliary emergency vehicle Ehg388

Pack Contents

Ehg388 - variant 4:

- slightly modernized version in traffic red; condition from 90s on (e.g. steam heating coupling removed)
- old roller shutters
- dynamic tail end indicators
- era-appropriate labeling

Ehg388 - variant 5:

- modernized version (e.g. front doors with rubber frames, plug and cable of the train power supply line removed)
- new roller shutters
- dynamic tail end indicators
- era-appropriate labeling

Ehg388 - operational variants:

- all five cars have an additional version equipped with night lighting (outside and inside)

Note: For performance reasons, the exterior lights are only "switched on" on one side of the vehicle (and both front sides)! Please place them accordingly in the scenario.

How to install

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

Note for scenario creators:
In order to use the luggage vans 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_Ehg388". If the green ticks are set, the models can be selected in the left middle flyout (1.) and placed on the tracks

4. The accessories can be found under the icon at the bottom right.

3.

2.

1.

4.

DB auxiliary emergency vehicle Ehg388
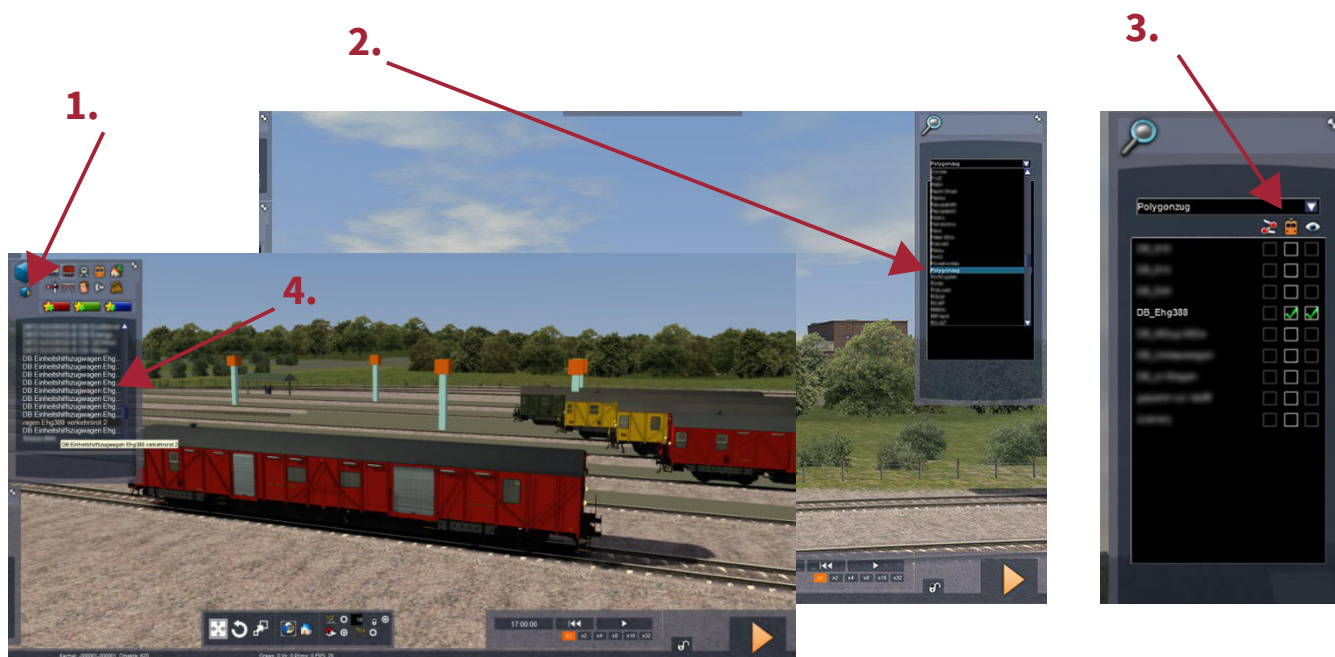
Dynamic Numbering

**Setting options for dynamic labeling:**

Wagons that are set in the scenario editor are already preconfigured with a prototypical wagon number (source: www.revisionsdaten.de). Because the data situation regarding the home locations of the wagons is very incomplete overall, the home stations were chosen arbitrarily in the preconfiguration. However, a very wide range of options is available for your own settings - see page 9.

Note: the traffic red variants no longer have the corresponding lettering; this has probably not been used on the prototype for several years.

Please proceed as follows if you like to change one or more of these variables:
1. Place the desired model on the tracks as described on page 6
2. A double-click on the model opens a right-hand flyout in which a combination of letters and numbers appears. This can be changed individually, whereby the procedure varies depending on the wagon variant.

In principle the setting works as shown in the picture below. The special features of each wagon variant are explained on the next page.
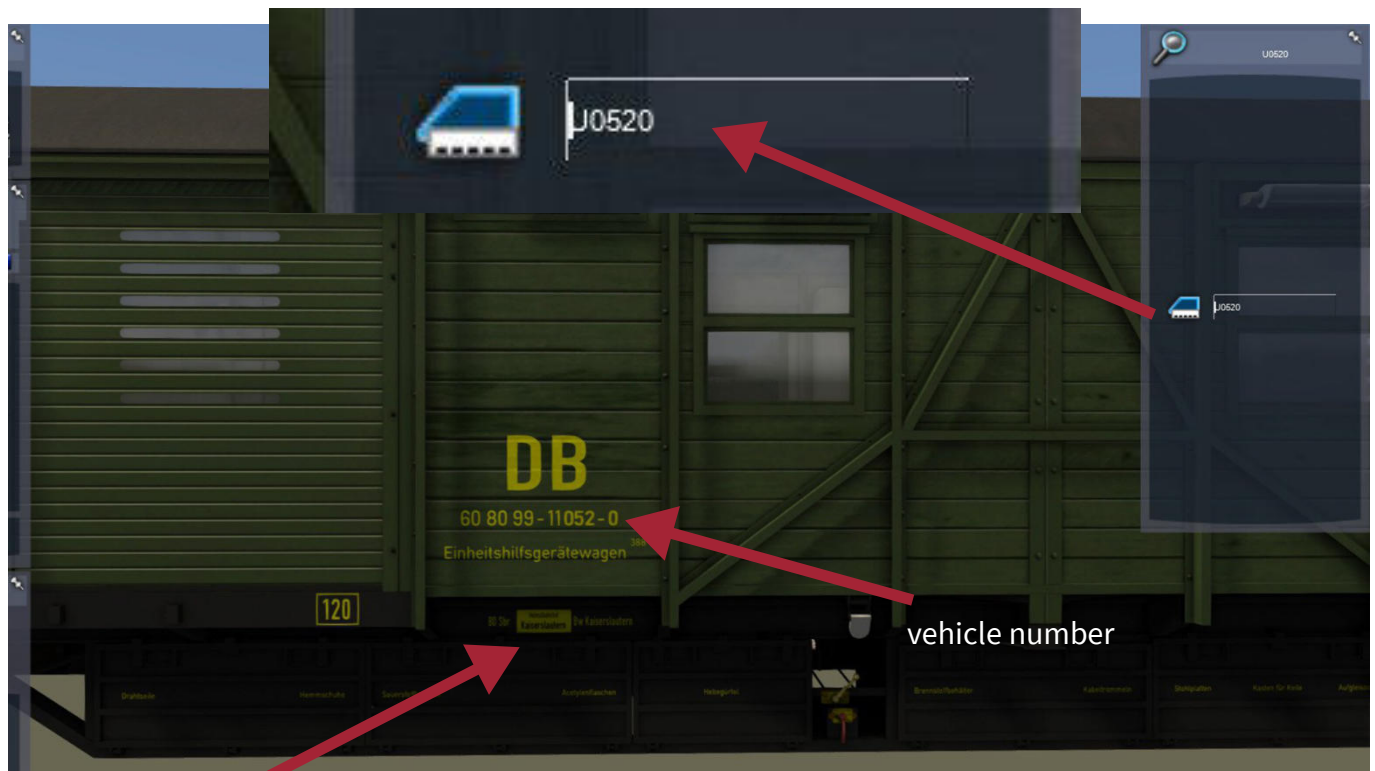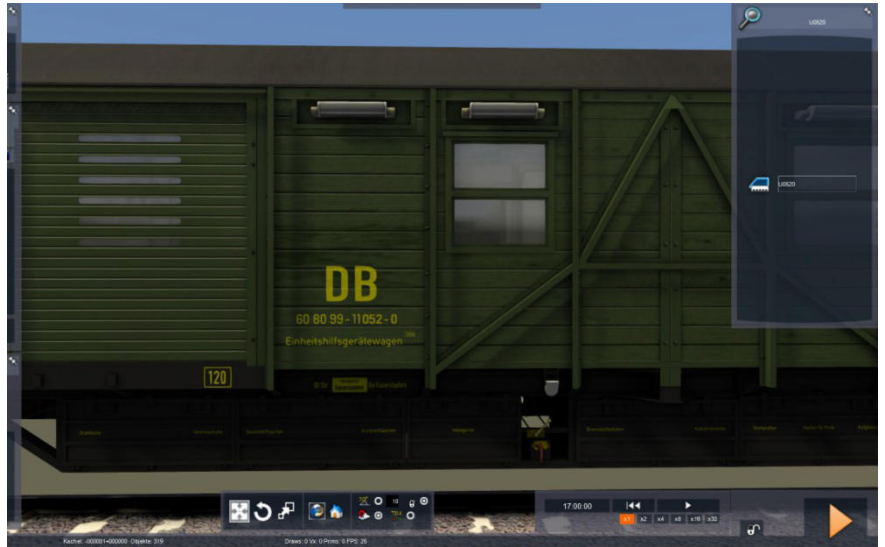

vehicle number

home location / home station
(List of all options see page 9)

Dynamic Numbering

green and yellow vehicles with wooden planking:

- five-digit code:
- first digit stands for the home location and must be entered according to the list on page 9.
- the digits 2 to 5 represent the wagon number; the last digit represents the check digit of the wagon

yellow vehicle with wooden plates:

- six-digit code:
- first digit stands for the DB logo, for settings see page 9.
- second digit stands for the home location and must be entered according to the list on page 9.
- the digits 3 to 6 stand for the wagon number; the last digit represents the check digit of the wagon as usual

traffic red vehicles:

- six-digit code:
- **no home location!**
- the six digits stand for the wagon number; here too, the last digit represents the check digit

DB auxiliary emergency vehicle Ehg388

Dynamic Numbering

home location - list of all available settings (only green and yellow vehicles):

	home location	railway division		home location	railway division
A	Augsburg	München	a	Aachen Hbf	Köln
B	Garmisch		b	Düsseldorf Hbf	
C	Kempten		c	Köln Hbf	
D	Mühldorf		d	Koblenz	
E	München Hbf		e	Mönchengladbach	
F	Aschaffenburg	Nürnberg			
G	Hof		f	Bielefeld	Essen
H	Nürnberg Rbf		g	Duisburg-Wedau	
I	Regensburg		h	Hagen-Eckesey	
J	Würzburg		i	Münster	
			j	Paderborn	
K	Aalen	Stuttgart	k	Wanne-Eickel	
L	Heilbronn				
M	Rottweil				
N	Ulm		l	Braunschweig	Hannover
O	Tübingen		m	Bremen Hbf	
			n	Hannover Hbf	
P	Haltingen	Karlsruhe	o	Oldenburg Hbf	
Q	Karlsruhe Rbf		p	Osnabrück Hbf	
R	Ludwigshafen		q	Rheine Rbf	
S	Radolfzell				
T	Ehrang	Saarbrücken	r	Flensburg	Hamburg
U	Kaiserslautern		s	Hamburg-Altona	
V	Saarbrücken		t	Husum	
W	Trier		u	Kiel	
			v	Lübeck	
X	Darmstadt	Frankfurt a.M.			
Y	Fulda				
Z	Gießen				
#	Kassel				
=	Limburg				

DB logos used on the yellow vehicles with wooden panel bodies:

+ black logo of the seventies and eighties
~ red logo used from 1986 on
- current logo

DB auxiliary emergency vehicle Ehg388

Features

Head and tail lighting:

all models except the traffic red versions have built-in lights which indicate the headlights or tail lights depending on the direction of travel (key "H"). When pushed, the traffic-red cars show switchable headlights, at the end of the train, tail end indicators are shown. This is also the case when the cars are pushed to the place of operation - even happened on the prototype!


Exterior lighting:

all five car models are also supplied in an "operation variant" with interior and exterior lighting. In the scenario editor's selection list, these models are marked with the addition "Beleuchtung".
Since this exterior lighting only looks realistic with casted shadows, but lights with shadows are very resource-intensive, only the side of the car and the two end faces are illuminated.
it is recommendable to place them economically in the scenario!

Couplers and vehicle connections:

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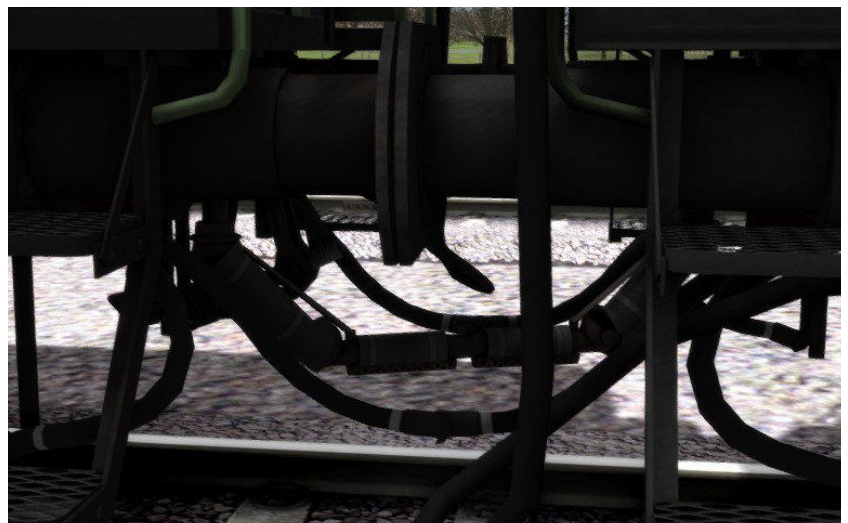
Policies

Important notes about use:

These models have been tested on several computers and are compatible at least with Train Simulator versions from 2014 to 2020; 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 zip file.

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DB auxiliary emergency vehicle Ehg388

Credits

Persons involved:

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

Sound sources: Heiko Müller, Ganderkeseeer, Gainmaster

Beta test: Loco-Michel

Installer: Ulf Freudenreich, virtualRailroads

Version history:

1.1   09.01.2020
       changes:
       - display of heating steam improved
       - small errors in 3D models and textures corrected
       - new sounds

1.0   first release (06.12.2017)

Polygonzug, January 2020
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