



Mercedes-Benz O307, version 2.0 for OMSI 2, 02/23/2014

In 1972 a standard regional bus (Standard-Überlandbus; StÜLB) was developed out of the existing VÖV standard city bus on demand of the two main regional bus companies in Western Germany, namely Deutsche Bundesbahn (Federal German Railway) and Deutsche Bundespost (Federal German Mail). Along with other producers Daimler-Benz also developed a model to fulfill these demands, the O307.

Differences of the regional bus O307 to its city traffic counterpart O305 are its length (11.7 m instead of 11.0 m), the swinging doors (with the front door being only as wide as one standard door leaf) and its high floor that enabled implementing a luggage compartment under the seats.

The O307 was purchasable between 1973 and 1987 at Mercedes-Benz. In this long construction time several major and minor changes were made. The biggest facelift took place in 1980; it consisted of new rear lights with three chambers within one light (instead of three round lights like before) and a redesigned cockpit with a smaller bus stop brake and new indicator lights. Minor changes were made in 1984 with the implementation of illuminated switches in the cockpit and redesigned air nozzles for the back pressure ventilation of the windshield.

Despite the relatively short list of individualization options in terms of equipment there are O307 that are arranged completely different than any other. Many details are also customizable in the OMSI model by adjusting the repaint cti files or changing textures according to the respective role model: Destination rollsigns with side rollsign boxes inside the window or attached to the chassis (see picture above) as well as line displays in the rear, cockpit with big or small sunscreen, standard seats or luxury seats with or without handrails, various indicators in the upper rear, school bus indicators in the front (only ordered by VKP Plön), position lights in the front, two different wood decors in the interior as well as optional cockpit design in grey standard color or also with wood decor and beige leatherette coating and more. Details can be found in the repaint SDK file.

The O307 of the Deutsche Bundesbahn, which was also the major customer for standard regional buses, were equipped in a special way from the beginning. At first the only difference to the standard model were additional top-hung windows in the front section but from 1983 on their frames were black anodized, probably exclusively. From 1984 on newly constructed dot matrix displays of various manufacturers were built in instead of rollsigns, from 1986 on with a wider display to improve its legibility. These details are also controllable in the repaint cti.

Compared to the first version of the O307 the second version is mostly rebuilt completely. Evidently is also the reduction to only two bus files, one for the rollsign version and one for the dot matrix version. Moreover the sounds – that still rely on the O305 add-on – were completely refurbished.

This way one of my favorite buses is now available on the roads of OMSI in contemporary quality and noticeably improved by the experiences I made. Even though the fan community for those vintage buses is a relatively small one and even though many users didn't even have the chance anymore to see the original buses in service I still hope that at least some enjoy driving this milestone of German bus history and may remember the old days or get an insight into how this past felt like.

Just like all of my bus models for OMSI also the MB O307 in its second version would not have been possible without the help and support from the community.

Special thanks go to:

- Rolf Westphalen** for allowing me to use the O305 addon as a basis
- Julian, Chrizzly92** and **Tatra** for their great help concerning scripting
- PoweredByCNG** for allowing me to use his O305 sound update
- MAN-FAN SH** and **O405N** from Youtube for the sound recordings I was allowed to use – once again
- Rüdiger Hülsmann** for allowing me to use scripts, sounds and textures of the MAN double deckers
- e2h1986** for creating the new rollsign graphics
- MR-Software** for the software itself
- and to many supporting and motivating users from the OMSI forum like **e2h1986** in the first place as he managed to solve many detail questions concerning the equipment of the buses with his deep knowledge as well as **Tristan98** who strongly contributed to the improvement of the old model by sometimes looking at it in a critical way.

The beta testers, namely **Tristan98**, **e2h1986**, **Tatra**, **NGG-Andi** and **Marc1972** have already found dozens of mistakes and improvement options in the early stages of the model. Thank you very much for that as well!

And last, but not least a special thank to **O530 Citaro** for translating this Readme!

Credits:

Model: Perotinus

Textures: MR-Software, Perotinus

Scripts: Rolf Westphalen, MR-Software, Julian, iTram, Chrizzly92, Perotinus

Sound recordings: Rolf Westphalen, MR-Software, PoweredByCNG, MAN-Fan SH (Youtube), O405N (Youtube), Morphi

Sound processing: Perotinus

One or more textures on this 3D model have been created with images from CGTextures.com. These images may not be redistributed by default, please visit www.cgtextures.com for more information.

Modifications:

Scripts and sounds are partly taken from the payware addon „City Bus O305“ and thus are subject to the copyright of their developer Rolf Westphalen as well as MR-Software. For this reason editing them is NOT allowed.

Das Modell und die Texturen des MB O307, die von mir (Perotinus) stammen, dürfen uneingeschränkt verändert werden. Im Zweifel einfach im Forum per PN nachfragen.

The model and the textures of the O307 that were created by me (Perotinus) can be changed without limitation. If in doubt, please ask in the forums via Private Message.

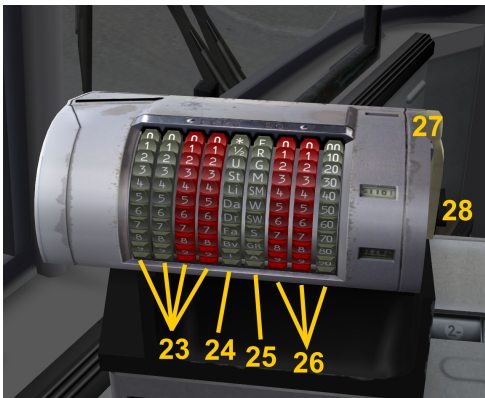
Installation:

To operate the MB O 307 the addon „City Bus O 305“ must be installed!

The MB O 305 has to be located in the folder Omsi → Vehicles → MB_O305. In OMSI 2 the preinstalled AI O 305 is not enough, thus the addon has to be installed here as well.

The content of the zip file must be unpacked into the OMSI main folder.

Operation:



1	Switch engine brake to foot brake	18	Emergency indicators
2	Fog lights	19	Bus stop brake
3	Cashdesk light	20	Door 1
4	Interior light 1	21	Door 2
5	Interior light 2	22	Heating valve
6	Windshield wipers / fast mode	23	Time setting wheels
7	Windshield wipers / on/off	24	Tariff setting wheel (*=Adult, 1/2= Child)
8	Windshield wipers / intervall mode	25	Ticket setting wheel (E=Single trip, R=Short trip, G=Daily pass)
9	Windshield cleaner	26	Price setting wheels
10	Front heating vents	27	Printing lever
11	Passenger cabin heating vents	28	Reset lever for setting wheels
12	Driver window heating (Dummy)	29	Destination
13	Mirror heating (Dummy)	30	Enter
14	Fog lights	31	Numeric keypad for line entry
15	Heater (heating valve 22 must be open)	32	Delete
16	Engine Start	33	Date/time
17	Ignition key/lightswitch	34	Display illumination

The cockpit is labeled and is mainly identical to the O 305 cockpit. In reality the engine brake is operated by a separate footswitch but can be connected to the footbrake by a switch on the cockpit (1). To use the separate engine brake switch I recommend to assign the key „A“ to the command „Retarder direct mode on/off“ in the options and activate the holding mode for the command key.

The printer represents the **Almex A 1518** which was commonly used in the Federal Railway buses. The

operation of the printer is entirely different to the operation of the printers previously used in OMSI. The **destination** in buses with dot matrix displays has to be entered in the **matrix control device** located in the overhead console, entering routes and thus also interior displays and announcements are not possible. The ticket type can be chosen by moving the setting wheels (23-26). The value displayed on the upper edge is the currently set one.

The first four wheels (23) enter the time. Attention: The OMSI passengers only tolerate a difference of 5 minutes maximum!

The following wheels set the desired ticket, the first (24) sets full fare (star) or reduced fare (1/2). The second wheel (25) is currently fitted with the following tickets: E = Single trip, R = Short trip, G = Daily pass.

The last three wheels (26) control the fare in 10s, 1s and decimal amounts.

Example:

1	3	1	5	½	R	0	1	20
---	---	---	---	---	---	---	---	----

The first four numbers tell the time: 13:15

The passenger demands for a reduced (1/2) short trip (R)

The fare is DM 1.20

By moving the lever (27) the ticket is printed, the reset lever (28) resets all ticket and fare entries.

It is possible to adjust the fitting of the Almex PDR to a map via the Hof file. To enable this the following entry has to be created in the Hof file:

```
[addbusstop]
almex_ticket00
2
```

00 is the wheel entry that should be changed or overwritten (consists of the position of the first and the second ticket wheel) and 2 is the ticket index that should be given if the ticket wheels are in the position 00 (or whatever was entered above).

The extern door opener is on the outside of the front stairwell in the right bumper.

The matrix display is operated from the control device located in the overhead console above the driver. Note that this is not an IBIS device, thus only the destination can be chosen (change by pressing P, enter by pressing the green button, edit by pressing the black button, view the time by pressing 0)

Rollsign:

As the rollsigns of the first version of the MB O307 did not really fit in terms of size and thus looked distorted in the front I decided to use a different rollsign texture for the second version. Unfortunately a consequence of this is that new rollsign textures have to be created. For this I recommend to use the template „Blanko.tga“ in combination with the font „DIN 1451 Mittelschrift“. The files can be found in the folder „Vehicles → Anzeigen → Rollband_O307_V2“.

Thanks to e2h1986 rollsign textures and suitable Hof files are within this download for some maps, they were originally created for the O305G Bahnbus modification.

To get the additional windshield destination board working textures for it have to be placed in the folder „Anzeigen“ and an entry in the respective Hof file must be done! For this I recommend to study the files from the O 305 addon (Neuendorf map)

Dot matrix display:

In their Standard 1 regional buses the Federal Railway used one-line dot matrix displays that were able to display 15 characters. To be able to simulate lines with four digits I decided to combine destination and line. The V2 of the O307 supports the format of the universal Hof file

(http://www.omnibussimulator.de/omsiwiki.de/index.php?title=Hofdatei#Die_Universelle_Hofdatei // **GERMAN ONLY**), it uses the strings 8 and 9.

The control device is operated the following way: By pressing the button „Code Nr.“ (29) the menu item „Ziel-Nr.“ (destination number) is opened. By using the numeric keypad (31) the three digits long destination code can be typed and entered by pressing „Eingabe“ (enter) (30). Pressing „Lö“ (Del) (32) deletes the entry. The current date and time can be displayed with the button „Datum/Uhrzeit“ (date/time) (33), the button „Display“ activates the display illumination for 30 seconds.

I hope you enjoy the Western German regional bus of the 1980s!

Perotinus