



NL Steam Pack

OWNER'S MANUAL

Version 1.0 Build 20240615

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1. Introduction

About this document

Around 2016, the HCC! Trainsim user group did release the Berkendamroute. As with other routes built by Wilbur Graphics, all objects in the Berkendam route were developed in-house by our studio, with the exception of the vegetation and ground textures. This also applied to the rolling stock, including the 'Materieel 1924' motor coach trains and all steam locomotives. Now, many years later, our TS Classic competencies have improved significantly. The performance of the hardware is also at a higher level and therefore TS-objects can be displayed in much more detail and realistically. Every *mid-life update* of this rolling stock therefore makes a big difference to the appearance, handling and driving characteristics. This fact triggered a number of major updating actions, which the 3700 with our diesel and electric locomotives of Era 3 has already undergone as part of the Grenzlandbahn project and which have recently been released as separate freeware add-ons on our website.

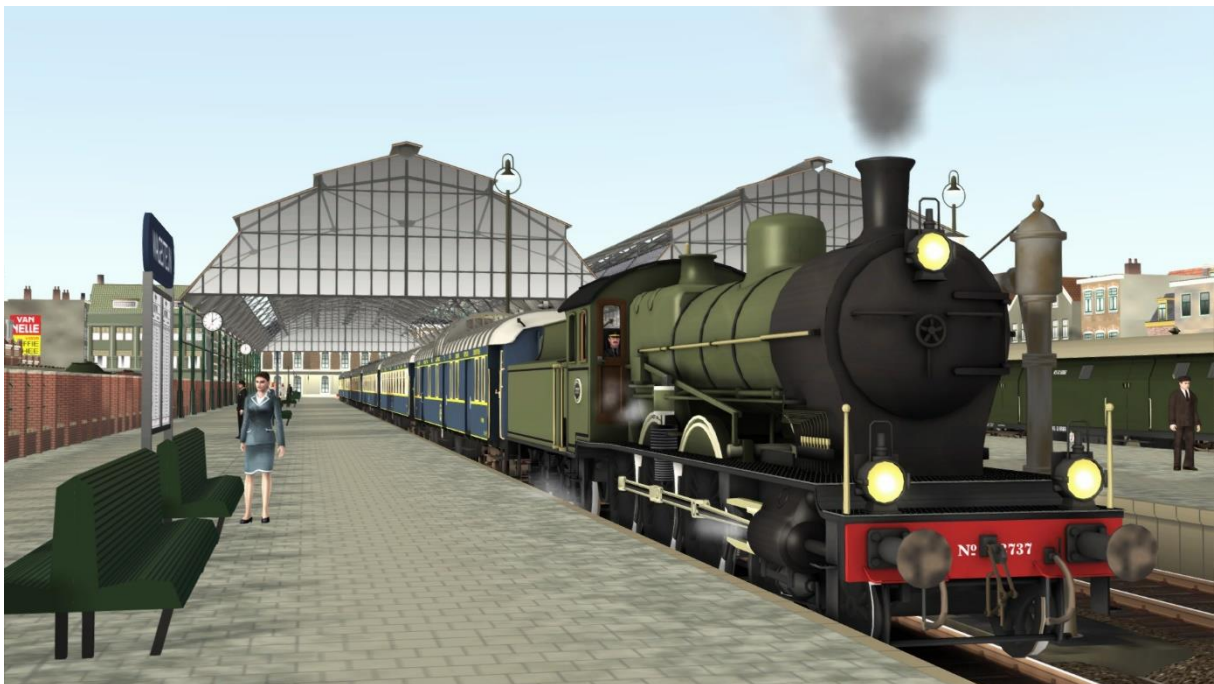
In the meantime, Berkendamroute rolling stock has undergone a thorough overhaul, the most important improvements of which are listed below. For the owners of this route, the complete rolling stock of Berkendam has been released as a Wilbur Graphics MLU freeware add-on. All forms of traction were included, like some representatives of the last steam locomotives of the Dutch Railways. We have bundled these 'last of the Mohicans' in this NL Steampack as separate Freeware DLC.

In this manual you will find instructions for the installation of this addon in chapter 2. In chapters 3 to 5 we will provide a complete overview of the WG rolling stock within the release. Chapter 6 contains a specification of the available preload consists, which players can use directly either in QuickDrive mode or in the Scenario Editor. The naming of the objects follows the conventions for the Berkendamroute, which means that all material objects involved are automatically replaced. We conclude this manual in Chapter 7 with compact operating instructions for the supplied WG locomotives and motor coaches.

Midlife Update Characteristics

- Before a locomotive can be driven, the air pump must be switched on
- The air pump status is shown in Dutch, English and German in compact message boxes
- New textures with software-rendered shadow effects ('ambient occlusion'), also to be found in the cabs
- Specular light effects have been reduced to realistic levels
- Improved handling and braking
- Improved automatic operation of safety valves
- Cylinder valves steam effects in AI traffic are cut off in excess of 25 km/h

Other rolling stock objects (coaches and wagons) have also undergone a mid-life update and have been provided with new textures and decals.



2. Installation

Download items

The NL Steampack from Wilbur Graphics can be downloaded as a .zip file and contains the following items in addition to the `readme.txt` :

- German, Dutch and English manuals:

```
WG_NL_Steam_Pack_DE_V1_0_build_20240615.pdf
WG_NL_Steam_Pack_EN_V1_0_build_20240615.pdf
WG_NL_Steam_Pack_NL_V1_0_build_20240615.pdf
```

- The installer

```
WG_NS_Steam_Pack_V10_build_20240331.exe
```

Manuals are also installed into the RailWorks folder structure:

```
..\Program Files x86)\
Steam\steamapps\common\RailWorks\Manuals\Wilbur Graphics\
NL_Steam_Pack\
```

Please see the *release notes.txt* for the latest changes and improvements.

Installation

After launching the installer, you will be asked to

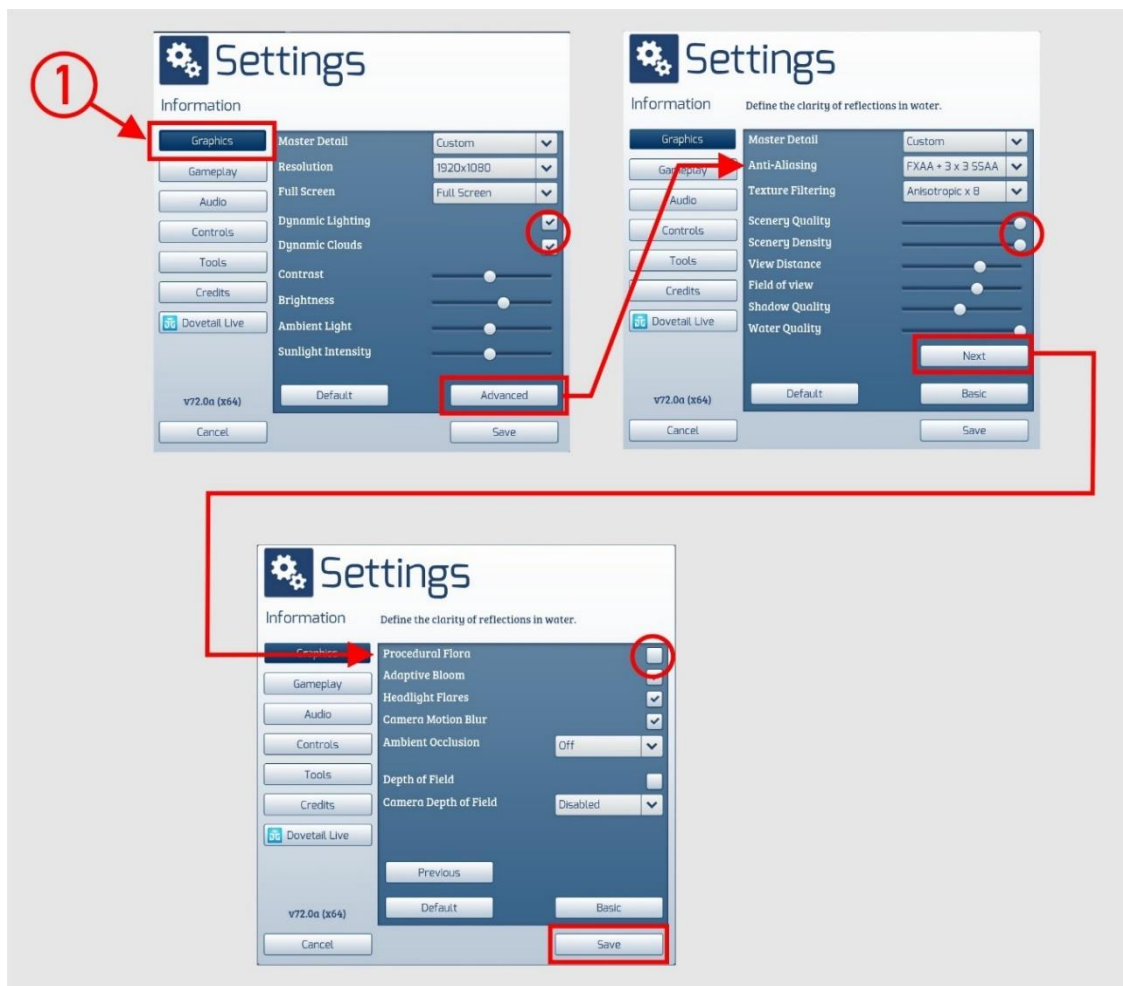
- select the installer language (Dutch/English/French/German)
- accept the License Terms (EULA)

Other tips

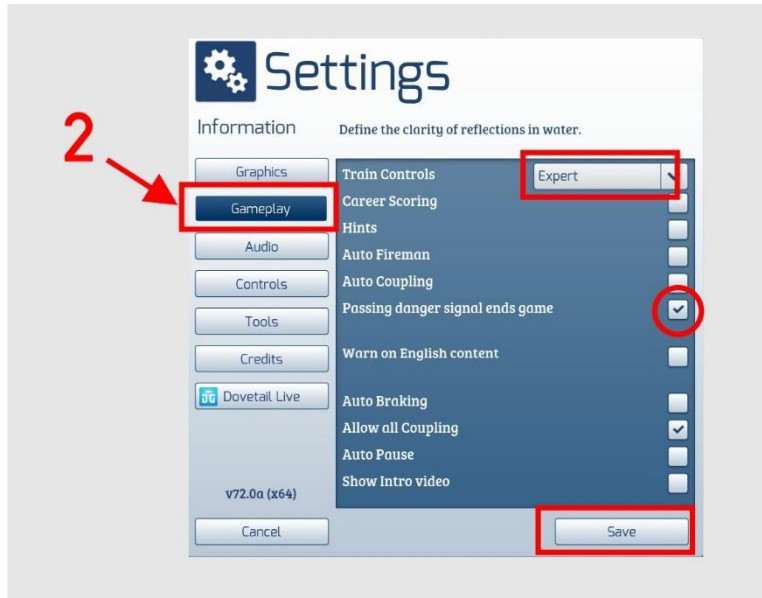
- Your computer must have access to the internet
- Make sure that the zipped files are extracted before starting the installation.
- If the installation software cannot find the Railworks folder on your system, the reference to this folder in the Windows registry may no longer be valid. This situation occurs if you have moved the Steam environment to another computer or disc drive. You can solve this by repeating the installation of Steam.
- There is NO need to repeat the download if the installation is unsuccessful. First, find out which problems can be solved by you.

Graphical Settings

Furthermore, the following TS Classic graphics settings are required for the Berkendam Rolmat MLU:



In addition to the graphics settings indicated above, the following settings of the game itself ensure an optimal experience of the scenarios. It is then assumed that you are heating the steam locomotives yourself. Of course, if you wish, you can also turn on the 'Auto Fireman' option:



When using this add-on on heavier PCs with higher specifications than those specified by DTG, you might consider deviating from these settings, but we have not tested our stock under those conditions. In addition, the frame rate, which should normally be above 25 fps, can benefit from a lower anti-aliasing setting (FXAA + 8 x MSAA). Although this will result in a slight loss of display quality which will be compensated by an fps increase.

The frame rate (number of frames per second) can be visualized in the game using the key combination SHIFT+Z.

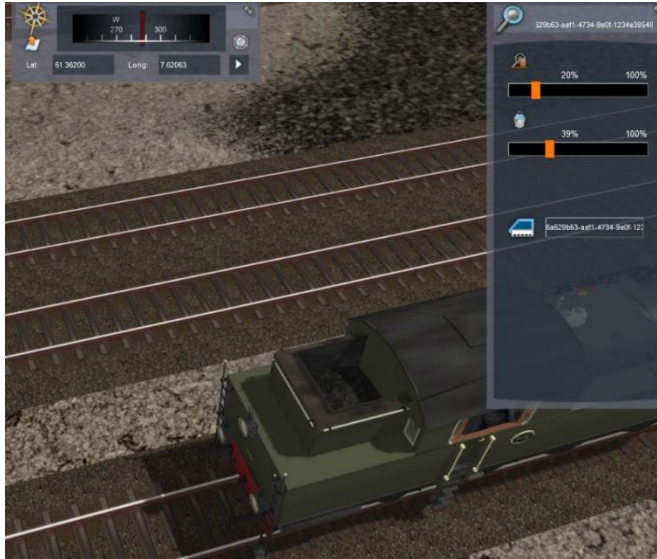
3. Traction

This table provides an overview of the available engines.

<i>Wilbur Graphics\ Rol- lend mat</i>	<i>.bin Object</i>	<i>Object Name</i>
NS_3700	WG_NS_3717	WG NS 3717 tp3
	WG_NS_3718	WG NS 3718 tp3
	WG_NS_3737	WG NS 3737 tp3
	WG_NS_3738	WG NS 3738 tp3
	WG_NS_3717T4	WG NS 3717 tp3 tender T3
	WG_NS_3718T4	WG NS 3718 tp3 tender T3
	WG_NS_3737T3	WG NS 3718 tp3 tender T4
	WG_NS_3737T4	WG NS 3737 tp3 tender T3
	WG_NS_3738T3	WG NS 3738 tp3 tender T3
NS_4600	WG_NS_4604	WG NS 4604 tp3
	WG_NS_4611	WG NS 4611 tp3
	WG_NS_4621	WG NS 4621 tp3
	WG_NS_4622	WG NS 4622 tp3
	WG_NS_4604T3	WG NS 4604 tp3 tender T3
	WG_NS_4611T3	WG NS 4611 tp3 tender T3
	WG_NS_4621T4	WG NS 4621 tp3 tender T4
	WG_NS_4622T4	WG NS 4622 tp3 tender T4
NS_5800	WG_NS_5812	WG NS 5812 tp3
	WG_NS_5816	WG NS 5816 tp3
NS_6100	WG_NS_6107	WG NS 6107 tp3
	WG_NS_6108	WG NS 6108 tp3
NS_6200	WG_NS_6239	WG NS 6239 tp3
	WG_NS_6240	WG NS 6240 tp3

Setting up scenarios

In TS, the reserves of coal and water are also included in the simulation. The scenario builder can set the starting volumes in the scenario editor. After the locomotive has been placed on the rails in the usual way, it is selected with a double left mouse click. Then a setting window will appear in the top right corner of the screen:



You can move the orange rectangles by clicking on the desired levels. In this example, the level of coal and feed water have been significantly reduced.

NS 3700



At the beginning of the last century, after experiments with the 4-6-0 express train locomotives of the NBDS, the State Railways also decided to order a series of similar engines with the British firm of Beyer Peacock. In 1910 the first units entered service as series SS 685-778. After the forming of the Dutch State Railways (NS) in 1920, production continued. The last units were delivered in 1928. With their 1850 mm driving wheels, the machines were suited for both passengers- and freight services. During WWII, 20 machines were lost, but the others served NS until the end of the steam era. Engine 3737 has been preserved for posterity in the National Railway Museum at Utrecht.

NS 4600



NS series 4600 were put into service by NS from 1923 on and were designed for running coal trains from Limburg to the North. Almost immediately their four-axle tenders were exchanged for 3-axle types from NS series 3701-3720. Almost every locomotive was requisitioned by the Germans and pressed into service with the DRG during WWII. They were returned after the war, although six engines were damaged beyond repair and had to be scrapped in 1947, together with number NS 4616 which had been badly damaged by the Germans when withdrawing from the Netherlands. The remaining units were retired in 1949. Engine numbers 4621 and 4622 in this release are therefore fictitious, but show what the locomotives would have looked like with a four-axle tender.

NS 5800



These tender engines were put into service by the HSM as class 801-812 in 1914 and 1915 and were developed from the 4-4-2 locomotives of the HSM series 771-776. The last seven units of the series, which in 1920 were incorporated with NS as series 5801-12, were built by Werspoor and were slightly

different from the others. Between the world wars, the machines mainly operated in passenger services, initially heading boat trains between Haarlem, Amsterdam and Enkhuizen, but later on also for commuter services around Amsterdam. After 1945 their days was virtually over. For some time, six machines were kept in storage with war damage, but all were sold for scrap between 1949 and 1951.

NS 6100



When, at the end of the 1920s, most NS lines had been prepared for 18 tonnes axle loads, it was finally possible to have a 4-6-4 loco series on the roster that was a full tender version of series 3700. As far as boiler, cylinders and gearbox were concerned, these locomotives were identical to Nos. 3816-3820. The series were mainly intended for heading commuter services around Amsterdam. The NS 6105 was seized by the Soviets in their occupation zone of Germany after WWII. Engines 6103 and 6109 were retrieved with damage beyond repair and had to be deleted after the war. The surviving engines were scrapped between 1956 and 1958.

NS 6200



The NS series 6200 were put into service by SS between 1912 and 1914 as nos.1100-1140 and were intended for shunting and freight services in the Limburg coal mining region. In addition, they could also be found heading passenger services. Nine engines were lost during WWII. After the war, the survivors could be encountered all over the Netherlands until the end of the steam era in 1957.

Electric Motor Coaches ('Materieel 1924')



With the electrification of the main network in mind, the need for a series of motor coaches was contemplated soon after the founding of the 'Nederlandsche Spoorwegen'. Experience had already been gained with electrical rolling stock on the 'Hofplein' line of the ZHESM, so that in 1922 the first orders for a range of motor coaches and carriages of "Materieel 1924" were placed with the Dutch industry.

In the period 1923-1932, 259 units of this rolling stock design were built: 130 motor coaches and 129 carriages. Later on, five different variants have been in production and many other derivatives were created through conversion and declassification, like in 1957 the motor mail coaches and finally Maintenance Of Way wagons. Because of their square appearance and because this rolling stock could easily be combined in any desired composition, the Mat '24 series soon earned their nickname of "Building Blocks". After the arrival of the streamlined EMUs in the 1930s, the official designation was changed to "Buffermaterieel 1924".

4. Coaches

This table gives an overview of the available carriages. Objects with a green background were added after the release of Berkendam.

<i>Wilbur Graphics\ Rol- lend mat</i>	<i>.bin Object</i>	<i>Object Name</i>
CIWL_1950	WG_CIWL_F_1287	WG CIWL Orient F 1287
	WG_CIWL_F_1287_skvb	WG CIWL Orient F 1287 oxog
	WG_CIWL_F_1287_vbvb	WG CIWL Orient F 1287 ogog
	WG_CIWL_PS_4035	WG CIWL Orient PS 4035
	WG_CIWL_PS_4035_ogog	WG CIWL Orient PS 4035 ogog
	WG_CIWL_PS_4035_oxog	WG CIWL Orient PS 4035 oxog
	WG_CIWL_R_4008	WG CIWL Orient WR 4008
	WG_CIWL_R_4008_ogog	WG CIWL Orient WR 4008 ogog
	WG_CIWL_R_4008_oxog	WG CIWL Orient WR 4008 oxog
NS_2_assers	WG_NS_2B_271	WG NS B 271 ogog
	WG_NS_2B_271oxog	WG NS B 271 oxog
	WG_NS_2B_272	WG NS B 272 ogog
	WG_NS_2B_272oxog	WG NS B 272 oxog
	WG_NS_2C_274	WG NS C 274 ogog
	WG_NS_2C_274oxog	WG NS C 274 oxog
	WG_NS_2C_275	WG NS C 275 ogog
	WG_NS_2C_275oxog	WG NS C 275 oxog
	WG_NS_2C_276	WG NS C 276 ogog
	WG_NS_2C_276oxog	WG NS C 276 oxog
NS_AB_6100	WG_NS_AB_6117	WG NS AB 6117
	WG_NS_BC_6017	WG NS BC 6017
	WG_NS_C_6922	WG NS C 6922
	WG_NS_AB6116	WG NS AB 6116
	WG_NS_BC_6016	WG NS BC 6016
	WG_NS_C6921	WG NS C 6921
NS_AB_7201	WG_NS_A_7217	WG NS A 7217 bl
	WG_NS_A_7217_oxog	WG NS A 7217 bl oxog
	WG_NS_A_7217_oxox	WG NS A 7217 bl oxox
	WG_NS_AB_7201	WG NS AB 7216
	WG_NS_AB_7201_oxog	WG NS AB 7216 oxog
	WG_NS_AB_7201_oxox	WG NS AB 7216 oxox
	WG_NS_B_7184	WG NS B 7284 bl
	WG_NS_B_7184_oxog	WG NS B 7284 bl oxog

<i>Wilbur Graphics\ Rol- lend mat</i>	<i>.bin Object</i>	<i>Object Name</i>
	WG_NS_B_7184_oxox	WG NS B 7284 bl oxox
	WG_NS_C_7202	WG NS C 7202
	WG_NS_C_7202_oxog	WG NS C 7202 oxog
	WG_NS_C_7202_oxox	WG NS C 7202 oxox
NS_AB_7521	WG_NS_AB_7521	WG NS AB 7521
	WG_NS_AB_7521_oxog	WG NS AB 7521 oxog
	WG_NS_AB_7521_oxox	WG NS AB 7521 oxox
	WG_NS_C_7157	WG NS C 7157
	WG_NS_C_7157_oxog	WG NS C 7157 oxog
	WG_NS_C_7157_oxox	WG NS C 7157 oxox
NS_D_7521	WG_NS_D_7521	WG NS D 7521
	WG_NS_D_7521_skvb	WG NS D 7521 skvb
	WG_NS_D_7521_vbvb	WG NS D 7521 vbvb
	WG_NS_D_7622	WG NS D 7622
	WG_NS_D_7622_skvb	WG NS D 7622 skvb
	WG_NS_D_7622_vbvb	WG NS D 7622 vbvb
NS_D6000	WG_NS_D6061	WG NS D 6061 gr oxox
	WG_NS_D6063	WG NS D 6063 gr skog
	WG_NS_D6063oxog	WG NS D 6068 gr oxog
	WG_NS_D6064	WG NS D 6064 gr ogog
	WG_NS_D6066	WG NS D 6066 gr sksk
	WG_NS_D6062	WG NS D 6062 bl skog
	WG_NS_D6065	WG NS D 6065 bl ogog
	WG_NS_D6065oxog	WG NS D 6069 bl oxog
	WG_NS_D6067	WG NS D 6067 bl sksk
NS_Mat_24	WG_NS_mat24_Aec	WG NS Mat 24 Aec 8517
	WG_NS_mat24bl_Aec	WG NS Mat 24 bl AB 8527
	WG_NS_mat24_Bec	WG NS Mat 24 Bec 8501
	WG_NS_mat24_Bec_8521	WG NS Mat 24 Bec 8521
	WG_NS_mat24bl_Bec	WG NS Mat 24 bl B 8501
	WG_NS_mat24_Cec	WG NS Mat 24 Cec 8528 ogog
	WG_NS_mat24_Cec_8536_oxog	WG NS Mat 24 Cec 8536 oxog
	WG_NS_mat24bl_Cec	WG NS Mat 24 bl B 8536
	WG_NS_Mat_24_mBD	WG NS Mat 24 mBD 9101 Ldg
	WG_NS_Mat_24_mBD_s	WG NS Mat 24 mBD 9115 Trl
	WG_NS_mat_24_mBD_unpowered	WG NS Mat 24 mBD unpowered
	WG_NS_Mat_24_mCd	WG NS Mat 24 mCd 9424 Ldg
	WG_NS_Mat_24_mCd_s	WG NS Mat 24 mCd 9428 Trl

All WG rolling stock has been equipped with Wilbur Graphics type 3link couplings, which makes them compatible with all other couplings of this type used as standard by DTG for European rolling stock. Incidentally, you may receive error messages when building consists in Quick Drive mode when you try to combine WG stock with rolling stock from other providers. In the Scenario Editor, this can lead to issues when selecting rolling stock items.

When a locomotive or tender is placed in front of a bellows equipped coach, a folded bellows gangway must be shown on coach front. In addition, the 4-doors brake van ('Steel Dirk') may be part of a consist of old fashioned compartment coaches without such devices. To enable these train sets passengers rolling stock in this release is offered in different versions, recognizable by a suffix (sk = screw coupling only, og = functional bellows, ox = permanently folded bellows). Coach colours will sometimes be indicated by suffixes, i.e. bl = blue, gr = green, alu = grey roof. For example, the *browser name* WG NS D 6063 gr alu ox og stands for: Luggage van D 6063, with green sides and grey roof, non-functioning bellows on one side and functional bellows on the other.

When setting up scenarios, the difference between working and static bellows is indicated by special markers, as shown below.



At the scenario start, this combination will produce a full bellows passage.



In the Scenario Editor, this red arrow indicates non-functional bellows passage.



The shunter has been coupled up, the bellows are shown in retracted position.



At the back of the van an extended bellows passage will be rendered.

5. Goods wagons

This table gives an overview of the available goods wagonss. Objects with a green background have been added after the Berkendam V2.0 release. Most vehicles are now equipped with a fixed cargo object. As a result, selected *preload consists* in Quick Drive mode are immediately available in loaded fashion.

<i>Wilbur Graphics\ Rol- lend mat</i>	<i>.bin Object</i>	<i>Object Name</i>
DB_Dwg_Heizöl	WG_DB_Dwg_Heizöl	WG DB Dwg Stookolie
DB_Ghs30_Oppeln	WG_DB_Ghs30_Oppeln_DUB	WG DB Tkos30 Dortm Union
	WG_DB_Ghs30_Oppeln_EUR	WG DB Ghs30 Oppeln EUROP
	WG_DB_Ghs30_Oppeln_Kühlw	WG DB Tkos30 Oppeln
	WG_DB_Gms30_Oppeln	WG DB Gms30 Oppeln (Remk.)
	WG_DR_Grhs_Oppeln	WG DR tp3 Grhs Oppeln
	WG_DRG_Grs_Oppeln	WG DRG tp2 Grhs Oppeln
	WG_DRG_Grs_(r)_Oppeln	WG DRG Grs Oppeln (r)
	WG_DRG_Grs_Oppeln	WG DRG tp2 Grs30 Oppeln (Remk.)
DB_Off_52	WG_DB_Off52_A	WG DB Off 52 A
	WG_DB_Off52_B	WG DB Off 52 B
	WG_DB_Off52_C	WG DB Off 52 C
	WG_DB_Off52_D	WG DB Off 52 D
DB_OOt50	WG_DB_tp3_OOt50	WG DB Ep3 OOt 50
DRG_Gh_Kassel	WG_DB_G10_Kassel	WG DB G10 124 709
	WG_DRG_Gh_Kassel	WG DRG tp2 Gh 137726
EDK_typ_6a	WG_DR_EDK6a_schutwagen	WG DR EDK6a schutwgn
	WG_DR_EDK6a_transprt	WG DR EDK6a transport
	WG_EDK6a_gen_schutwagen	WG NS EDK6a schutwgn
	WG_EDK6a_gen_transprt	WG NS EDK6a transport
	WG_EDK6a_VSM_schutwagen	WG VSM EDK6a schutwgn
	WG_EDK6a_VSM_transprt	WG VSM EDK6a transport
NS_CHD	NMBS_CHD_r_1	WG NS CHD 17521
	NS_CHD_r_1	WG NS CHD 17147
NS_CHOP_Oppeln	WG_NS_CHOP_Oppeln	WG NS CHOP Oppeln
NS_CHPW	NS_CHPW_Amstel	WG NS CHPW Amstel 27817
	NS_CHPW_Amstel_1950	WG NS CHPW Amstel 27818
	NS_CHPW_Frico	WG NS CHPW Frico 27787
	NS_CHPW_Frico_1950	WG NS CHPW Frico 27788
	NS_CHPW_Fyffes	WG NS CHPW Fyffes 27711
	NS_CHPW_Fyffes_1950	WG NS CHPW Fyffes 27712
	NS_CHPW_Zeevisch	WG_NS_CHPW_ID_Zeevisch

<i>Wilbur Graphics\ Rol- lend mat</i>	<i>.bin Object</i>	<i>Object Name</i>
NS_Dg	NS_Dg2425_groen	WG NS tp2 Dg2425
	NS_Dg2426_bruin	WG NS tp3 Dg2426
NS_Frico_Oppeln	WG_NS_Frico_Oppeln	WG NS Frico Oppeln
NS_GTMK	NS_GTMK_1938_kolen	WG NS GTMK 59228
	NS_GTMK_1954_kolen	WG NS GTMK 59241
	NS_GTMK_r_1938_kolen	WG NS GTMK 59281
	WG_NS_GTMK_1938_ledig	WG NS GTMK 59228 (ledig)
	WG_NS_GTMK_1954_ledig	WG NS GTMK 59241 (ledig)
	WG_NS_GTMK_59228	WG NS tp3 GTMK 59228
	WG_NS_GTMK_59421	WG NS tp3 GTMK 59241
	WG_NS_GTMK_r_1938_ledig	WG NS GTMK 59281 (ledig)
NS_HHW	WG_NS_HHW_laadk	WG NS tp2 HHW laadk
	WG_NS_HHW_tankcont	WG NS tp2 HHW tankcont
NS_LW	WG_NS_LW_1938	WG NS LW 87428 Bingham
	WG_NS_LW_1954	WG NS LW 87426 Phoenix
	WG_NS_LW_ledig	WG NS LW 87435
	WG_NS_LW_NKF	WG NS LW 87433 NKF
NS_P_ketelw	NS_P_ketelw_caltex	WG NS P-ketelwgn 2ass Caltex
	NS_P_ketelw_esso	WG NS P-ketelwgn 2ass Esso
	NS_P_ketelw_fina	WG NS P-ketelwgn 2ass Purfina
	NS_P_ketelw_matex	WG NS P-ketelwgn 2ass Matex
	NS_P_Ketelw_phm	WG NS P-ketelwgn 2ass PHM
	NS_P_ketelw_shell	WG NS P-ketelwgn 2ass Shell
	NS_P_ketelw_texaco	WG NS P-ketelwgn 2ass Texaco
	NS_P_ketelw_tsig	WG ketelwagen hcc!trainsim
NS_S-CHO	WG_NS_S-CHO_1954	WG NS S-CHO 6933
	WG_NS_S-CHO_5617	WG NS S-CHO 5617
NS_S-CHR	WG_NS_S-CHR_1954	WG NS S-CHR 1954
	WG_NS_S-CHR_31577	WG NS S-CHR 31577
NS_SSImas53	WG_NS_SSImas_53_GP200	WG NS S-HTS Type K trucks
	WG_NS_SSImas_53_NKF	WG NS S-HTS NKF
	WG_NS_SSImas_53_Phoenix	WG NS S-HTS Phoenix
	WG_NS_SSImas_53_spar	WG NS S-HTS sparren/spars
	WG_NS_SSImas_53_stam	WG NS S-HTS logs/stammen
	WG_NS_SSImas_53_trucks	WG NS S-HTS LKW
	WG_NS_SSImas_53	WG NS S-HTS
	WG_NS_SSImas_53_rails	WG NS S-HTS rails/track
	WG_NS_SSImas_53_WilburG	WG NS S-HTS WilburG
NS_SSImas53_basis	WG_NS_SSImas_53_GP200	WG NS Rs GP 200 trucks

<i>Wilbur Graphics\ Rol- lend mat</i>	<i>.bin Object</i>	<i>Object Name</i>
NS_SSImas53_mil	WG_NS_SSImas_53_mil_2LR109_5t	WG mil SSImas53 2LR 5t
	WG_NS_SSImas_53_mil_2LR109_YA328	WG mil SSImas53 2LR YA328
	WG_NS_SSImas_53_mil_2LR109+3t+	WG mil SSImas53 2LR 3t
	WG_NS_SSImas_53_mil_2LR109+YA314	WG mil SSImas53 2LR YA314
	WG_NS_SSImas_53_mil_3t+3t+	WG mil SSImas53 3t+ 3t+
	WG_NS_SSImas_53_mil_3t3t	WG mil SSImas53 3t 3t
	WG_NS_SSImas_53_mil_4LR88	WG mil SSImas53 4 LR 88
	WG_NS_SSImas_53_mil_5t5t	WG mil SSImas53 5t 5t
	WG_NS_SSImas_53_mil_KL_4LR88	WG mil SSImas53 KL 4 LR 88
	WG_NS_SSImas_53_mil_YA314	WG mil SSImas53 YA 314
	WG_NS_SSImas_53_mil_YA328	WG mil SSImas53 YA 328
NS_SSy45_mil	WG_SSy_45_Centurion	WG mil SSy 45 Centurion KL
	WG_SSy_45_Centurion_BAOR	WG mil DB SSy 45 Centurion BA
	WG_SSy_45_YP408	WG mil SSy 45 YP408 KL
NS_USATC	WG_USATC_ketelw_Caltex_47	WG NS USATC Caltex 47
	WG_USATC_ketelw_Caltex_50	WG NS USATC Caltex 50
	WG_USATC_ketelw_Esso_03	WG NS USATC Esso 03
SNCF_Gas	WG_SNCF_Gas_A	WG SNCF Gas A
SNCF_K_Oppeln	WG_SNCF_K_Oppeln	WG SNCF K Oppeln



6. Preloads

The table below lists the included *preload consists*, which can be selected either with the Scenario Editor or in Quick Drive mode.

<i>Consist</i>	<i>Loco Name</i>	<i>Display Name</i>
NS_3717_solo	WG NS 3717	Losse loc/light engine
NS_3718_solo	WG NS 3718	Losse loc/light engine
NS_3718_Ovaalramersbl_stam	WG NS 3718	met D B B A A B B B ovaal blauw
NS_3737_solo	WG NS 3737	Losse loc/light engine
NS_3737_koelwagentrein	WG NS 3737	with reefers/met koelwagens
NS_3737_20_kolenbkn	WG NS 3737	with/met 20 coal/kolen
NS_3737_D_C4_BC4_AB4_2C4	WG NS 3737	w/7 coaches/coupe hout
NS_3737_Etoile_du_Nord	WG NS 3737	met Etoile du Nord
NS_3737_Ovaalramers_DCCABABCCC	WG NS 3737	met D C C AB AB C C C ovaal
NS_3738_solo	WG NS 3738	Losse loc/light engine
<i>Consist</i>	<i>Loco Name</i>	<i>Display Name</i>
NS_4600_2ass_Gmix	WG NS 4621	m/w 2-ass/2-axle Gmix
NS_4604_light_engine	WG NS 4604 T3	(light engine)
NS_4611_light_engine	WG NS 4611 T3	(light engine)
NS_4621_light_engine	WG NS 4621 T4	(light engine)
NS_4622_20_kolenbkn	WG NS 4622 T4	with/met 20 coal/kolen
NS_4622_ketelwagens_01	WG NS 4622 T4	2- and 4-axle tankers/ketelwagens
NS_4622_light_engine	WG NS 4622 T4	(light engine)
NS_5812_12_G_wagens	WG NS 5812	w/m mixed goods/bonte g-trein
NS_5812_2_assers_GCCBCC.xml	WG NS 5812	w/m local/2-assers
NS_5812_C4_BC4_AB4_2C4	WG NS 5812	w/5 coaches/coupe hout
NS_5812_light_engine	WG NS 5812	losse loc/light engine
NS_5816_light_engine	WG NS 5816	losse loc/light engine
NS_5816_stam_mat24	WG NS 5816	with/met 5 coaches
NS_6100_stoptrein	WG NS 6107	stoptrein / local passenger service
NS_6107_light_engine	WG NS 6107	losse loc/light engine
NS_6107_Ovaalramers_DCCABABCCC	WG NS 6107	met D C C AB AB C C C ovaal
NS_6108_16_G_wagens_Tp_II	WG NS 6108	m/w G-wagens tp 2/goods wagons Era II
NS_6108_16_G_wagens_tp3	WG NS 6108	w/ goods Era 3/met G-wagens tp3
NS_6108_D_C4_BC4_AB4_2C4	WG NS 6108	w/6 coaches/coupe
NS_6108_light_engine	WG NS 6108	losse loc/light engine
NS_6108_stam_coupe_DCCAACCC	WG NS 6108	w/met 7 coaches/couperijtuigen

<i>Consist</i>	<i>Loco Name</i>	<i>Display Name</i>
NS_6200_2-4ass_Gmix	WG NS 6239	m/w 2/4-ass/2/4-axle Gmix
NS_6200_20_kolenbkn	WG NS 6240	with/met 20 coal/kolen
NS_6239_ketelwagens_01	WG NS 6239	4-axle tankers/4-ass ketelw
NS_6239_light_engine	WG NS 6239	losse loc/light engine
NS_6240_light_engine	WG NS 6240	losse loc/light engine
NS_636_EDK_custom_01	WG NS 636	m/w custom kolenkraan/coaling crane



7. Cab lay-outs

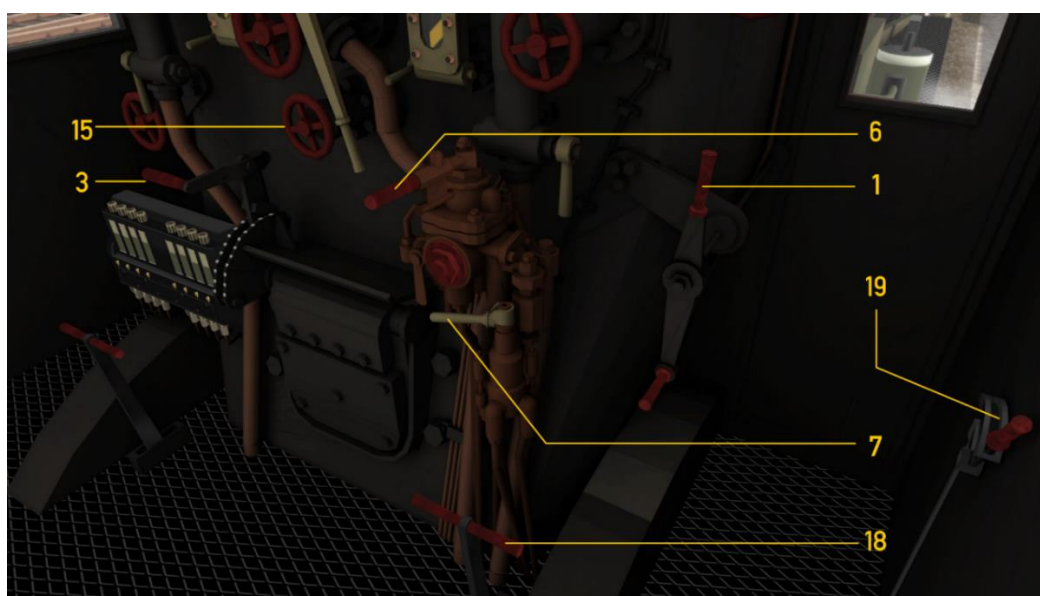
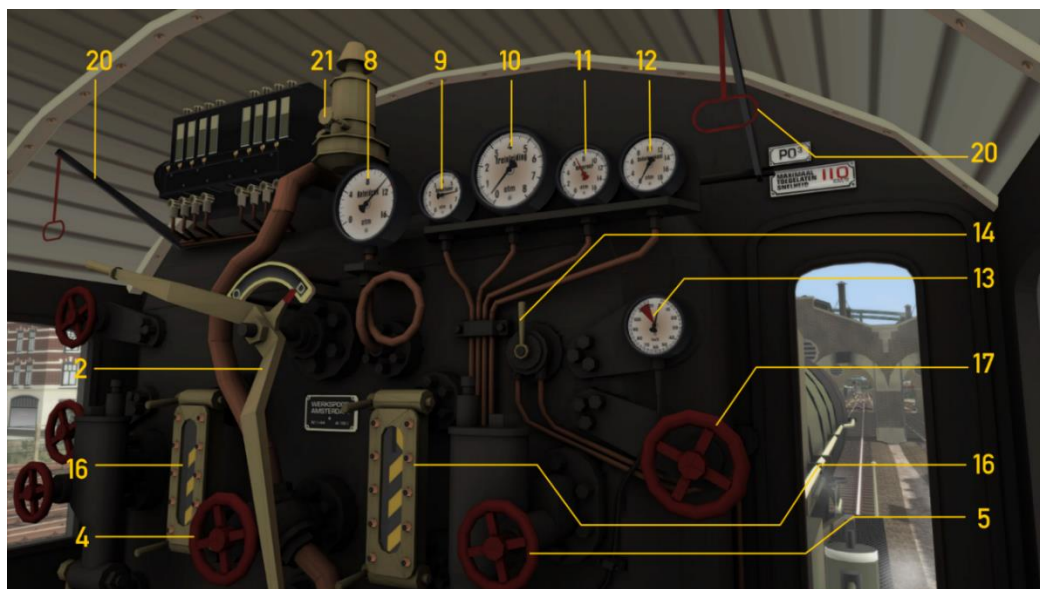
General

Cab layouts in our Dutch steam locomotives are almost identical. In locomotives with a coupled tender, two cab camera positions are available. You can switch between them with the arrow keys (left: fireman-, right: driver position). In tender locomotives four positions are provided for, because these locomotives may be heading trains in reverse.

Headlights are operated in accordance with TS. Dutch steam engines had no electrical installation and kerosene lamps were standard issue. These can be switched on and off in the usual way using the H button. To illuminate the cab and the dials, you can light the oil lamp on the boiler front.

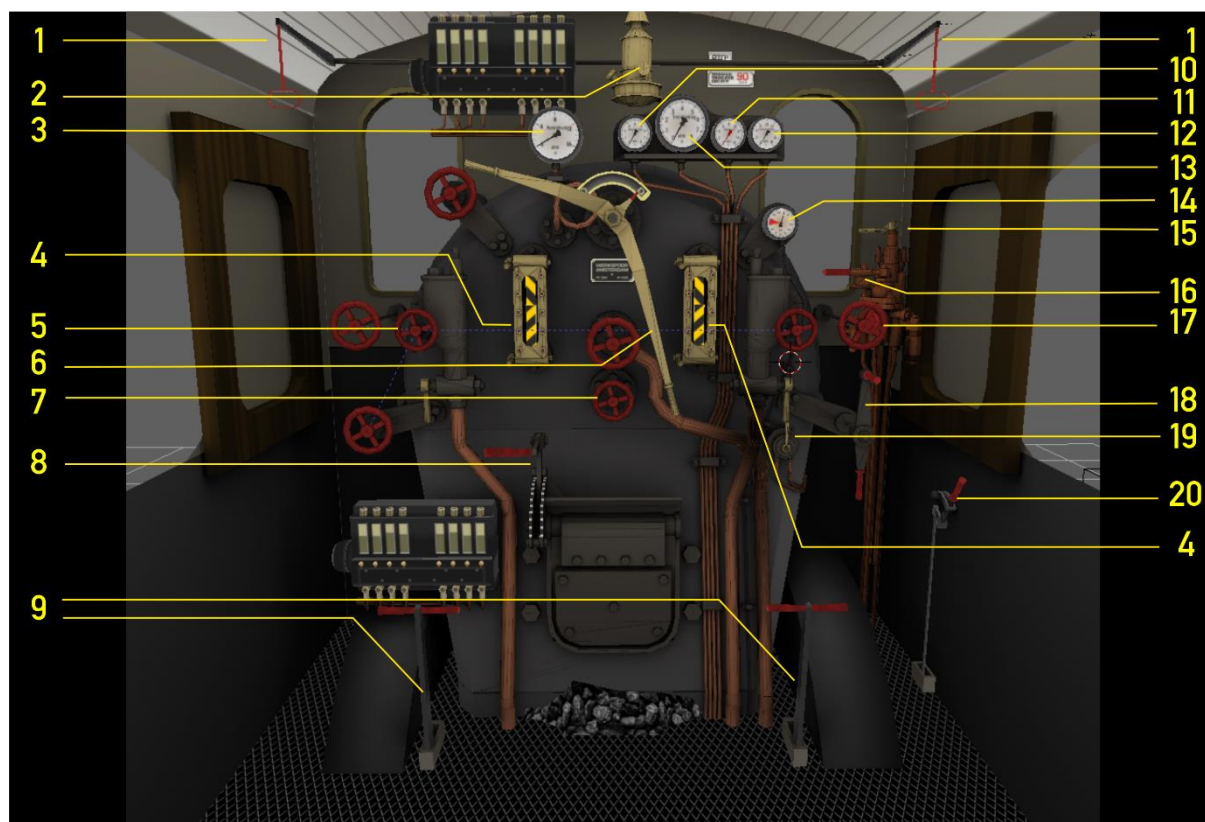
Important: To run a steam locomotive, the air pump must first be turned on (CTRL+O or move the handwheel with the mouse)

NS 3700, 4600, 6100 en 6200



1	Reverser	W S	13	Speedometer	
2	Regulator	A D	14	Sander	X
3	Firebox door	F	15	Blower	
4	Injector (fireman)		16	Water gauges	CTRL+9
5	Injector (driver)		17	Compressor start/stop	M/SHIFT+M
6	Train brakes	; ']	18	Dampers	C
7	Engine brakes	[19	Cylinder cranes	SPACE BAR
8	Manometer		20	Whistle	N
9	Brake cylinder pressure			Whistle (short)	CTRL + F11
10	Brake pipe pressure		21	Oil lamp (cab light)	H / SHIFT +H
11	Main reservoir pressure			Head/tail lights	CTRL + F9
12	Steam chest pressure			Shunting lights	

NS 5800



1	Whistle (long)	SPACE BAR	12	Steam chest pressure	
2	Whistle (short)	N	13	Brake pipe pressure	
3	Oil lamp (cab light)	CTRL+F12	14	Speedometer	
4	Manometer	F	15	Engine brakes	[]
5	Water gauges		16	Train brakes	; ,
6	Injectors		17	Compressor start/stop	CTRL + 0
7	Regulator	A D	18	Reverser	W S
8	Blower		19	Sander	X
9	Firebox door	F / SHIFT+F	20	Cylinder cranes	C
10	Dampers			Head/tail lights	H
11	Brake cylinder pressure			Shunting lights	CTRL+F9
12	Main reservoir pressure				

8. Colophon and credits

Development and production:

© Wilbur Graphics, Henk van Willigenburg (www.wilburgraphics.com)

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© Michel R.

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