Electric Locomotive
NS Series 1100

MANUAL

Version 1.41 build 20230515

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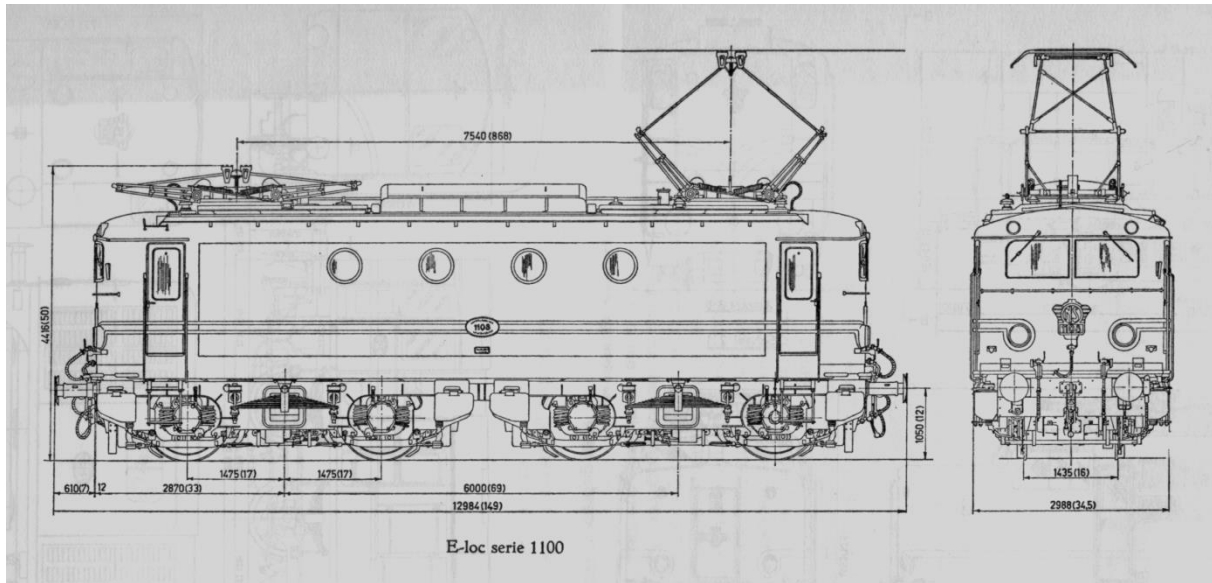
Historical background

NS Series 1100

When the electrification of the NS network was resumed after the war, the need arose for a large series of mixed service electric locomotives. O meet this in the short term, 60 locomotives of the SNCF series 8100, which was in production at the time and which would appear in the Netherlands as the NS 1100 series in 1950, was ordered from Alsthom in France. The first machine in the series made a test drive between Laroche and Dijon and reached a speed of 135 km/h. The last unit was delivered in 1952.

The series 1100 is a four-axle locomotive, with the body resting on two bogies. The draw and buffing gear is attached to the trucks and not, as usual, to the frame. From their home MPD in Maastricht, the machines could be seen allover the Netherlands. They could be found not only for local passenger services, but also pulling freight trains and in international services. The type was rather unpopular with their drivers due to their moderate running characteristics, so the maximum speed of the 1100s was soon limited to 110 km / h.

The first engines of the series were delivered in a turquoise livery. However, that color scheme turned out to be very sensitive to dust and dirt and was quickly replaced by 'Prussian blue'.

Technical data

E-loc serie 1100

Wheel arrangement:	Bo-Bo
Continuous power:	1900 kW (2500 pk)
Max. speed:	110 km/u
L.o.a.:	12.984 m
Wheel base:	8.95 m
Trucks w/b:	2.95 m
Distance between	
bogie pivots:	6.0 m
Wheel radius:	0.625 mm
Mass:	83 t

Installation tips

General

Wilbur Graphics *NS 1100 era III* comes as a .zip file and includes the following items in addition to a `Readme_EN.txt`:

- Map Manuals\Wilbur Graphics with English and Dutch user manuals:

```
WG_NS_1100_Handbuch_V1_41.pdf
WG_NS_1100_Manual_V1_41.pdf
WG_NS_1100_Handleiding_V1_41.pdf
```

- installer `WG_NS_1100_V141_build_20230515.exe`

After launching the installer, you will be prompted to
- Select a language for the installer (Dutch/English/French/German)
- Accept the License Terms (EULA)

See the `release notes.txt` for the latest changes and improvements.

Other tips
- The .zip file must be fully unpacked before you can begin 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 solve this by repeating the installation of Steam.

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Rolling stock

NS 1100 for TS Classic

TS Object Browser Index

NS 1100	Locs
1112	WG NS 1112 tp3
1122	WG NS 1122 tp3
1125	WG NS 1125 tp3
1142	WG NS 1142 tp3

Preloads

WG NS 1112 era III solo

WG NS 1122 era III solo

WG NS 1125 era III solo

WG NS 1142 era III solo

WG NS 1122 era III w/2-axle Gmix

WG NS 1112 era III w/AutoPon VW

WG NS 1125 era III w/Plan E P.RD.AB.B

WG NS 1142 era III w/DB 60s Express

NS 1125

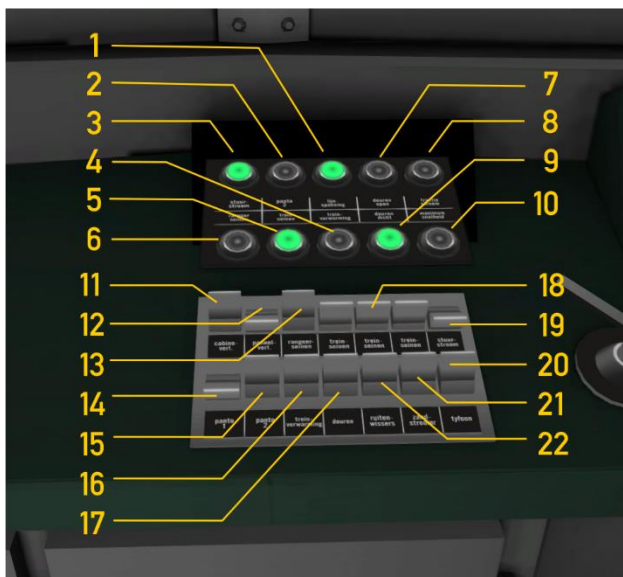'Prussian blue', era III, L-front signals

NS 1142

'Prussian blue', era III, with official NS-logo
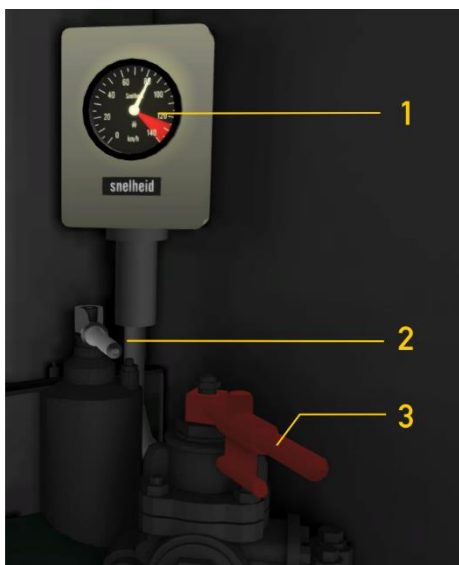
Operation

Indicator lights and Faiveley-block

Switch 17 (doors open/close) only responds to keyboard shortcut T or clicking the *Load/Unload* button in the HUD.

1	Catenary tension		12	Panel lights switch	CTRL+F11
2	Second panto risen		13	Shunting signals switch	CTRL+F9
3	Control current		14	Pantograph up/down	P
4	Train heating		15	Panto 2 setting switch	
5	Trainsignals		16	Train heating switch	
6	Shunting signals		17	Doors open	T
7	Doors open		18	Train signals switch	H SHIFT+H
8	Maximum current		19	Control current switch	CTRL+ 0
9	Doors closed		20	Typhoon	SPACE BAR or N
10	Maximum speed reached		21	Sander	X
11	Cab lights	CTRL+F12	22	Wipers	V

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Levers and gauges

1	Brake pipe/main reservoir		6	Rotator current truck 2	
2	Brake cylinders		7	Speedo	
3	Control current tension		8	Controller	A / D
4	Catenary tension		9	Reverser	W / S
5	Rotator current truck 1				

1	Speedo
2	Engine brake
3	Train brake

Cab layout in this TrainSimulator version follows the TS Classic standard for electric locomotives (expert mode) and therefore differs partly from reality. Operating front and rear signals is TS-compliant. These can be switched on/off in the familiar way with the H-key. When shunting signals are switched on, a white lamp is displayed at both the front and rear.

Control current is disabled by default. If the player forgets to turn it on when setting the locomotive in motion, a warning message will appear.

Lamp 20 lights up at amperages above 450 A. When the player clicks the unload/load button (hotkey T) with a passenger train along the platform, lamp 7 turns on. At speeds above 110 km/h, lamp 10 lights up.

Charles Burki (1909-1994) / From: 'De Kilometerkampioen', 1954

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Colophon/Credits

Development and production:
© Wilbur Graphics, Henk van Willigenburg (www.wilburgraphics.com)

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Testing:
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