

DR Series 01.5 for TS 20xx

Version 1.0



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1 Background

The German State Railways (DR) in the German Democratic Republic were still depending on their Series 01 express locomotives. However, many engines had been ran down in heavy passenger services. On top of this, the limits of the old boilers became more and more apparent. Because of these circumstances it was decided to have 35 engines rebuilt in the Meiningen maintenance shops between 1962 and 1965 as part of a general rebuilding program - which resulted in the 01.5 series. Right until the end of the East German steam era these impressive locos shared the main burden of the DR heavy express services. Engine number 01 512 was the last one that was put aside by the Magdeburg depot in 1982.

The type has not only been important from technical and historical points of view, but also because of the relatively large number that have been saved from the cutter's torch. Nowadays a total of five preserved locos will keep the memory of the Reko-01 alive. Wilbur Graphics built six variants of this locomotive family as TS 2018 rolling stock objects.



Bild: Ronnie Venhorst

More information (in German) can be found on the internet, like e.g.:

http://www.ebm-arnstadt.de/index.php?option=com_content&view=article&id=86&Itemid=40
https://nl.wikipedia.org/wiki/DR_Baureihe_01.5

2 Rolling stock



DR 01 504

Fitted out with boxpok-wheels, side skirts and oil-fired (era III, 1950-1970).



DR 01 0507-2

Oil-fired; fitted out with boxpok-wheels and computer number, but without side skirts (era IV, 1970-1990).



DR 01 514

Fitted out with boxpok-wheels, but coal-fired (era III, 1950-1970).



DR 01 517

Fitted out with spoke wheels and oil-fired (era III, 1950-1970).



DR 01 1531-1

Fitted out with spoke wheels and oil-fired, but with a flat smokebox door and computer number (era IV, 1970-1990).



DR 01 533

Fitted out with spoke wheels and flat smokebox door, but coal-fired (era III, 1950-1970).

TS Object Browser Index

| Series 01.5 | Loco | Tender |
|------------------|-------------------|-------------------------|
| 01 504 | WG DR BR 01 504 O | WG DR BR 01 504 T34 Oel |
| 01 0507-2 | WG DR BR 01 507 O | WG DR BR 01 507 T34 Oel |
| 01 514 | WG DR BR 01 514 | WG DR BR 01 514 T34 |
| 01 517 | WG DR BR 01 517 O | WG DR BR 01 517 T34 Oel |
| 01 531 | WG DR BR 01 531 O | WG DR BR 01 531 T34 Oel |
| 01 1533-1 | WG DR BR 01 533 | WG DR BR 01 533 T34 |

Variants overview

| Outfit | 504 | 0507-2 | 514 | 517 | 1531-1 | 533 |
|---------------------|------|--------|------|------|--------|------|
| Coal fired | | | • | | | • |
| Oil fired | • | • | | • | • | |
| Smokebox door | cone | cone | cone | cone | flat | flat |
| Spoke wheels | | | | • | • | • |
| Boxpok wheels | • | • | • | | | |
| Side skirts | • | | | | | |
| Era | III | IV | III | III | IV | III |
| Typefont (loco no.) | 1 | 2 | 1 | 1 | 2 | 1 |

1 = Prof. R. Klein (Spitzziffern)

2 = Alte DIN 1451 Mittelschrift geprägt

Preload Consists

DR BR 01 504 (light engine)

DR BR 01 507 (light engine)

DR BR 01 514 (light engine)

DR BR 01 517 (light engine)

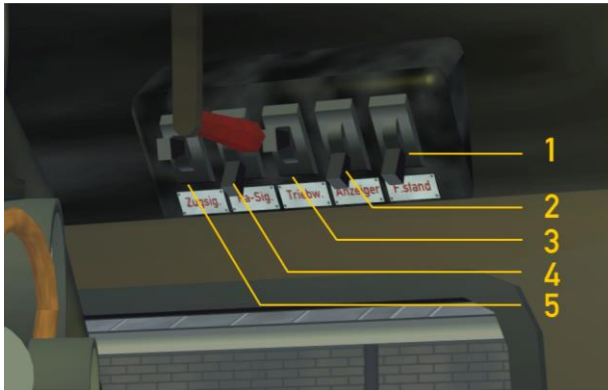
DR BR 01 531 (light engine)

DR BR 01 533 (light engine)

3 Operation

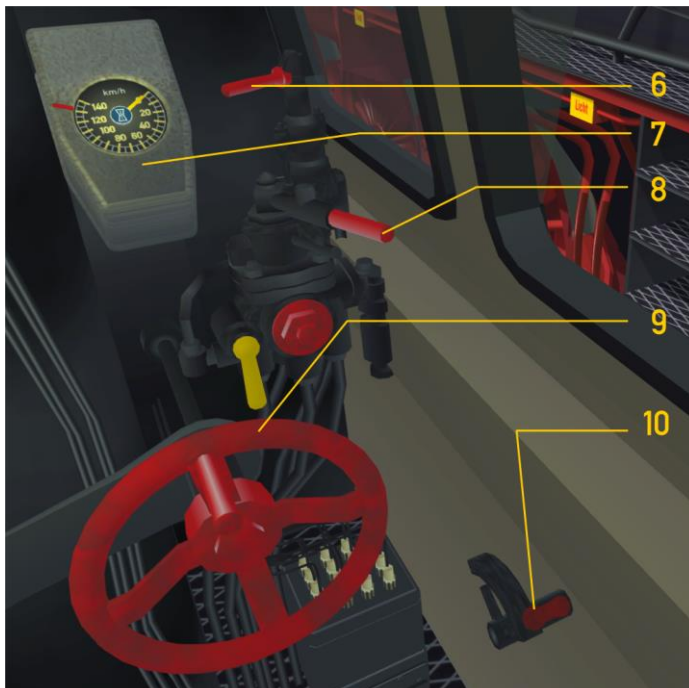
Handles, switches and gauges

There are two cabcam positions, that can be selected by using the arrow left and right keys: driver (cabcam position 1, right side) and stoker (left side).



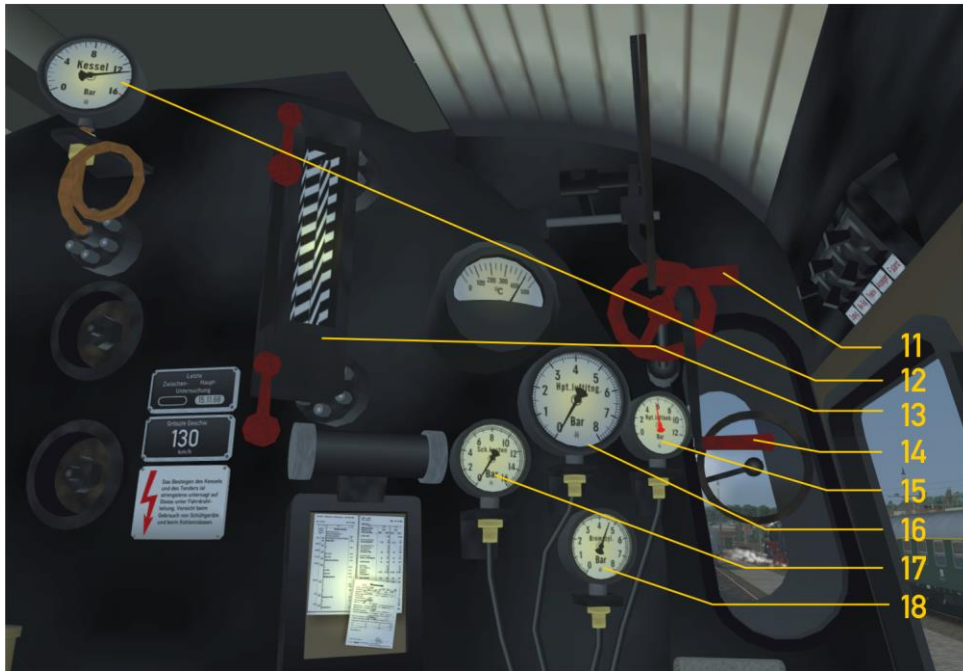
Like all modern German steam locomotives, our Reko-01 have been fitted out with an electrical lighting system for which a switch panel just above the right side window has been provided. At the start of each scenario the shunting-lights (4) will be switched on, just like the gauges lights (2). Motion link and driving/coupling rods lighting may be switched on at dark.

| | | | | | |
|---|----------------------|-----------|---|------------------|---------------|
| 1 | Cabin lights | CTL + F12 | 4 | Shunting lights | CTL + F9 |
| 2 | Gauges lights | CTL + F11 | 5 | Head/tail lights | H / SHIFT + H |
| 3 | Motion link lighting | CTL + F10 | | | |

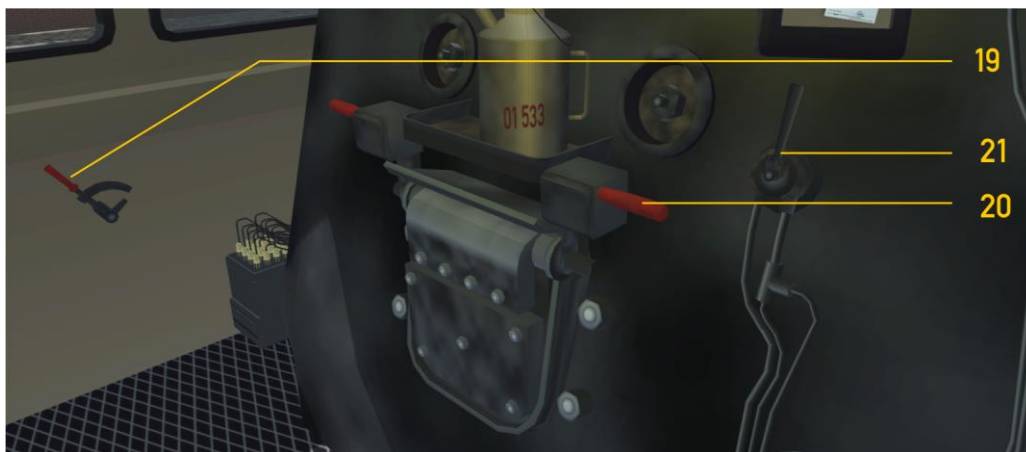


The reverser (9) controls the link motion operation. Next the engine and train brakes handles can be seen (7 and 8 respectively) and the speed indicator (6). Handle (10) serves to operate the cylinder cocks. At scenario start they will be opened.

| | | | | | |
|---|-----------------|-----|----|----------------|-------|
| 6 | Speed indicator | | 9 | Reverser | W / S |
| 7 | Engine brakes | [] | 10 | Cylinder cocks | C |
| 8 | Train brakes | ; ' | | | |

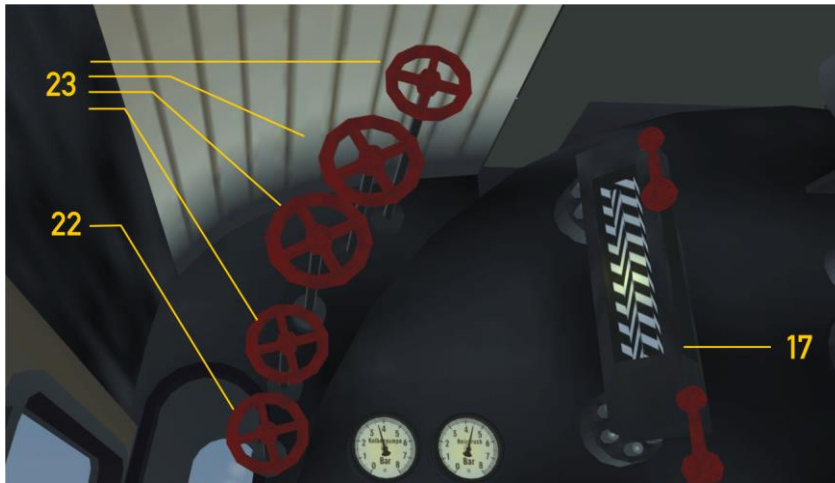


| | | | | |
|----|-----------------|-----------|----|-------------------------|
| 11 | Whistle, long | SPACE BAR | 15 | Main reservoir pressure |
| | Whistle, short | N | 16 | Air brake pipe pressure |
| 12 | Boiler pressure | | 17 | Steam chest pressure |
| 13 | Water gauge | | 18 | Brake cylinder pressure |
| 14 | Regulator | A / D | | |



| | | | | |
|----|--------------|-------------|--|--|
| 19 | Dampers | D/SHIFT + D | | |
| 20 | Firebox door | F/SHIFT + F | | |
| 21 | Sander | | | |

Obviously, the firebox door is not operational with oil-fired locomotives.



| | | | | | |
|----|-------------|---------------|--|--|--|
| 17 | Water gauge | | | | |
| 22 | Blower | , / SHIFT + , | | | |
| 23 | Injectors | | | | |



Driving the Series 01.5 in TS 20xx

At the start of each scenario shunting lights will be switched on and the cylinder cocks will be opened. When you switch on the headlights, the script will reset the shunting lights switch to its off-position. The driver is responsible for closing the cylinders cocks, once the admission of steam will have warmed up the cylinders. In this way, damaging the mechanism by condensed steam in the cylinders will be prevented; in TS the player must look after the cylinder cocks closing and opening.



For an optimum performance you are advised to adhere to the following settings: reverser 21 % forward, regulator 55 – 60 %. Driving without the support of the *Auto Fireman* is much more fun, while keeping the boiler water level close to its maximum of 99% and the coal volume in the firebox around the 65 % level.



Switching the *Auto Fireman* on and off can be done in *Settings > Gameplay*. In the same window, set your *Train Controls* to *Expert*.



Select SHIFT + 2 for having a clear view on the tracks. Driving a steam engine in the old days was tough, but German drivers enjoyed the benefits of a wind shield.



When the weather deteriorates, your rotating wiper window preserves a clear view, free of rain drops.

In the Scenario Editor you will be able to adjust the *Player Train's* initial coal and water supplies after selecting the tender with a double left mouse click:



4 Installation

The Wilbur Graphics Series 01.5 may be downloaded as a .rwp-file and must be installed by running the TrainSimulator 2017 utilities program:

C:\Program Files (x86)\Steam\SteamApps\common\RailWorks\Utilities.exe

In the menu window that will be displayed select the tab **Package Manager**, next click the **Refresh** button. After that, click **Install** and select the file:

WG_DR_BR_01_5_V1_0_build_20180110.rwp

See the document *release notes.txt* for the latest changes and improvements.

Remark: In order to get the full results of some animations and sound effects (e.g. engine crews and exhaust sounds) the DTG Academy must be linked as a provider to your route or scenario. This can be done in either the Scenario Editor or the Route Editor. The screen print below has been made in the first mentioned but both editors offer the same functionality. First, select the small blue cube with the orange triangle in the left hand area of the screen. Next, select DTG as a provider in the right hand window that will then appear. You can link this provider by ticking off the boxes at the line 'Academy' :



5 Copyright/Credits

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We like to extend our gratitude to Wolfger König for his many useful tips on this model and on the German translation of this manual, and to Studio 2561 for making some special sound effects available to our 01.5 project.