

BR120, orientred

Vehiclenames in Railworks: vR-BR120_ORot 117-7 / vR BR120_ORot DynNum



The Class 120 is considered the forerunner of all modern electric locomotives at the DB. The first pre-production models were built 1979. She should take the successor of the legendary series Class 103

The actual series production began in 1984 and until 1989 a total of 65 were built and left in service.

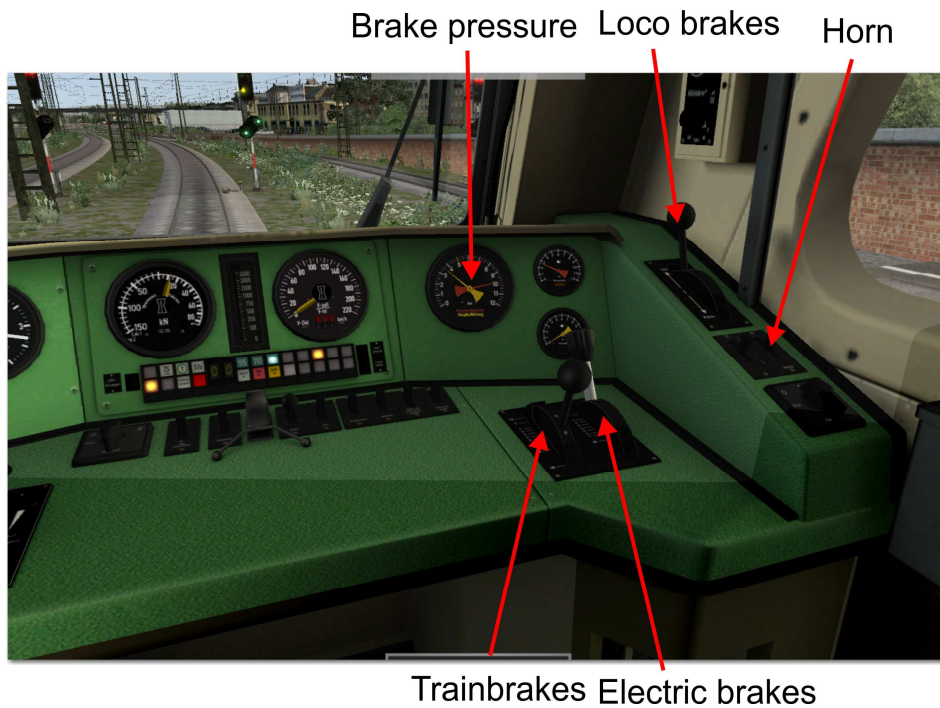
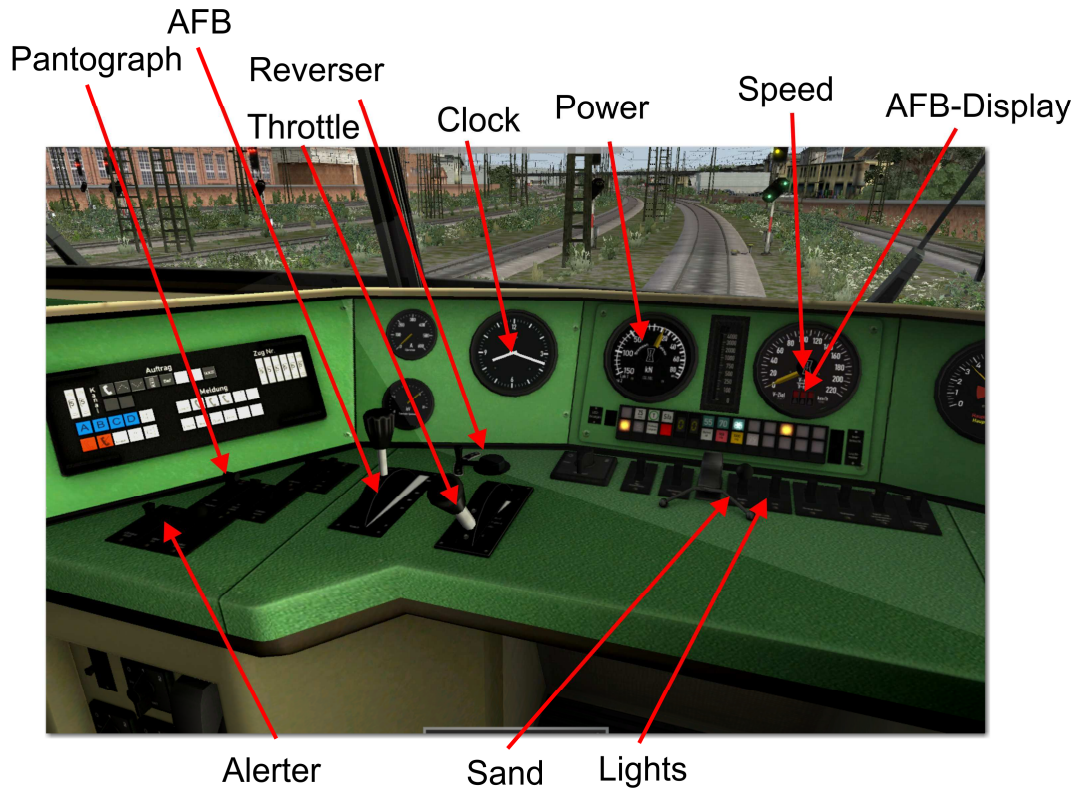
With its top speed of 200 km / h, it was a match for the modern demands of the fast train service.

The package includes two versions of the Class 120. One version has the number which belongs to the colour variant and the other version has dynamic numbers to make it more interesting for KI traffic.

**The loco has a lot of programmed functions by LUA
Please read this manual carefully.**

Cab of the Class 120

Here are two pictures with the explanation of the cab. Thus, you can operate the locomotive with the mouse. In RailWorks 2 the electric brake is known as dynamic brake.



Additional keys for operating the BR120:

<i>Starting and stopping the AFB:</i>	<i>Shift + A</i>
<i>Setting the Vsoll Regulator:</i>	<i>Y and C</i>
<i>Switching the Cab light</i>	<i>Strg + H</i>
<i>Horn</i>	<i>B</i>
<i>SiFa switching ON / OFF</i>	<i>Strg + S</i>
<i>SiFa Reset</i>	<i>Spacebar</i>
<i>Wiper interval / level up</i>	<i>Shift + V</i>
<i>Wiper interval / level down</i>	<i>Strg + V</i>
<i>Lights levelling up / brighter</i>	<i>Shift + L</i>
<i>Lights levelling down / darker</i>	<i>Strg + L</i>

Wiper Interval

You can switch the wiper with the key V or you can use the new wiper interval mode switching on and level up with Shift + V and levelling down with Strg + V.
The levels are: Off, 0, 4, 7, 12 seconds.

Textmessages

The loco uses a new message system to show you different settings you make in the right upper corner of your screen.
If you switch perhaps SiFa, AFB or the wiper you will see a textwindow on the screen.

AFB-Function (Keys Y and C / Shift A)

The BR120 has a complete new function. AFB means an automatic throttle and brake system. It is like a cruise control in a car. You can choose a speed and the system accelerate and brakes automatically.

Introductory notes / PLEASE READ CAREFULLY:

The AFB should help you driving your train but AFB is no AUTOPILOT. You as the train driver have the full control and responsibility for the train. The build in AFB control is as much as realistic as possible but does not work 100% like a real AFB control used here in Germany.

**PLEASE do not use the F4 panel to drive the train!
Using the levers on the F4 panel will lead to malfunction the AFB.**

You can only use **AFB function** if you drive in **EXPERT MODE**. If you are new to Railworks you will have problems driving the train and some experience is needed to drive without any mistakes and problems.

Important notes for using the AFB:

There are some security settings which you have to know to use AFB function. The regulator is blocked when you made a manually use of the trainbrake lever. If the trainbrake lever is still in another position then 0 you can't accelerate the train with the regulator. It is a security setting not to accelerate with brakes in another position than 0.

To make your regulator operational, release the trainbrake and move the regulator to zero and then to the position you want.

Using the AFB if your train stands still:

- set the trainbrake to 4.4 bar
- set the regulator to 0
- set the reverser to the direction you want to drive to
- check the locobrake, is it released?
- switch on AFB function (**Shift + A**); you will hear a bell
- choose your desired speed with the Vsoll Regulator (**Button Y / C**)
- release the trainbrake
- set the regulator to a middle position; you will use more engine power if you move the regulator more to the front

The AFB will now release the brakes automatically and will give power to the engine. The train will start rolling. You can now give more power with the regulator or change the desired speed with the Vsoll regulator.

Using the AFB if your train is rolling:

- set the regulator to 0
- choose your desired speed with the Vsoll regulator. The speed should be higher or equal as the speed you are driving at the moment.
- switch on AFB function (**Shift + A**); you will hear a bell
- set the regulator to a middle position; you will use more engine power if you move the regulator more to the front

Using the brake with AFB switched on:

If you want to brake manually while AFB function is used because you must make an emergency brake or you are driving down a gradient use the brake lever as usual. The AFB will switch into waiting mode and the train will brake normally. You need not to switch off the AFB function.

After you stopped set the regulator to 0, release the trainbrake and set the regulator to a middle position and the train will start rolling again. Set the desired speed with the Vsoll regulator.

Having problems using the AFB function

AFB sways

If AFB always switches between acceleration and deceleration (could happen if you drive down a gradient) set the regulator to 0 and AFB function will switch to "Only brake" mode.

"My train drives not without AFB function"

- check if your train is on a track with wires
- check if the loco is switched on and the pantograph is up
- move the brake to 4.4 bar
- switch off the AFB (**Shift + A**) you should hear a bell
- set the reverser
- check if the locobreak is released

- release the trainbrake
- use the regulator to start driving

“My train won’t drive with AFB switched on”

- check if your train is on a track with wires
- check if the loco is switched on and the pantograph is up
- move the brake to 4.4 bar
- switch off the AFB (**Shift + A**) you should hear a bell
- set the Vsoll regulator to 0
- set the regulator to 0
- set the reverser
- check if the locobrake is released
- switch on the AFB function (**Shift + A**)
- choose your desired speed with the Vsoll regulator
- release the trainbrake
- set the regulator to a middle position; the train starts rolling

EAX Soundproblems

The locosound is optimized for sound cards using the EAX system.
This may cause problems on computersystems without such a soundcard.

To give you the chance to change the sound there is an alternative Soundfile you need to rename to activate.
You can find this file here:

Railworks\Assets\virtualRailroads\vR_BR120...\EIlloks\BR120_CabSimAudio\Audio

Please rename the file so its name is BR120-Audio.bin. Be sure to make a copy of the original file to roll back to the EAX soundfile.