The SBB CFF FFS Re 620

QUICK GUIDE





Quick guide

TrainworX
Swiss Trainsimulator Addons

These slides will take you through the basic functions of the Re 620 Pack V5.0 for TS20XX by TrainworX



Startup (Manual)

- 1. Move Brakevalve Left (Shift-B)
- 2. Move driving current switch forward (Shift-S)
- 3. Move panto switch forward (P)
- 4. Move main switch forward (Z)

You will hear the mainswitch engage. The rear panto will raise. **Shift-P** will toggle the front panto.

- 4. Disengage the *Enginebrake* (Lokbremse, []) which will be on 70% by default.
- 5. Set the *Trainbrake* (Zugbremse, ; ') to the 'Quick Release'; (3rd) position
 The engine is now ready for operation.





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Startup (Autostart)

1. Press (Ctrl-Shift-S)

Needed functions will automatically engage. The rear panto will raise. Also Engine brake will loosen and Deadmans safety system (Wachsamkeitskontrolle) will acivate. Reverser will be set to forward.

Manually set the *Trainbrake* (Zugbremse, ; ') to the 'Quick Release'; (3rd) position

The engine is now ready for operation.



Lights

The servicelights switch on by moving the 'Dienstlicht' switch forward (**H/Shift-H**). Default is AUTO. Down is OFF, up is MANUAL.

3 white frontlights and two red or one white taillight will be switched on (default).

You can change the frontlights to any other position manually from the cab you are in:

Ctrl-1 / Crtl-Shift-1 = Frontlight right

Ctrl-2 / Crtl-Shift-2 = Frontlight middle (top)

Ctrl-3 / Crtl-Shift-3 = Frontlight left

Sequence: White<->Off<->Red<->Off







High beam and Cablights

Press the 'Fernlicht' switch (F) to switch on the high beam.

There are several lights in the cabine:

Cab light (L)
Instrument light (I / Shift-I)
Schedule light (Ctrl-F10)





Wipers

The left and right wipers are controlled separately:

Left wiper (C / Ctrl-C)
Right wiper (V / Ctrl-V)

Sequence:

Off<->Slow<->Fast

Switching a wiper off leaves it in it's current position. There is no auto-return or park. This makes it possible to **park** it to the right side off the window, which is a preferred position for SBB drivers.



Brakes

Before driving make sure all brakes are off:

Handbrake (/) – default = off Locobrake ([&]) – default = 70% on Trainbrake (; & ') – default = off

The trainbrake has 6 positions:

- 1. Abschlussstellung Park
- 2. Fuellstellung Ready
- 3. Fahrstellung Drive
- 4. 1. Bremsstellung Brake low
- 5. 1. Schnellbremsstellung Brake medium
- 6. 2. Schnellbremsstellung Brake full
- 7. Vollbremsung Emergencybrake





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Reverser and Combined Throttle-Brake

To move forward push the Reverser forward (**W**), to reverse pull backwards (**S**). The middle position is neutral.

The Fahrhebel is a combined throttle and dynamic brake which operates a **step-switch**:

Push forward to *increase* steps (3200 amp max) (**A**) Pull backwards to *decrease* steps (**D**)

Above the middle (zero) position is *throttle*, below the middle postion is *dynamic brake*.

The button on the Regulator pivot point is the horn (B).



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Step switch (Stufenschalter)

Forward:

Minus - Switches back to step zero

Point Holds current step

Manual M Increases steps to 2400 Amps

Plus + Quickly increases steps to 2150 Amps

then slow to 2400 Amps

Doubleplus ++ Quickly increases steps to 2150 Amps

then slow to 3100 Amps (32 steps)

Dynamic brake:

Minus - Decreases Dynamic brake steps

Point Holds Dynamic brake step

Plus + Increases Dynamic brake steps to 2200

Amps (22 steps)



Mirrors, Sander, Horn

The *mirrors* can be deployed / closed by pressing the small footpedal or **Ctrl-S**.

The sander (X) can be used to increase traction on slippery tracks

The horn is located on the throttle lever pivot (B)



Wachsamkeitskontrolle

The Re 420 has a **deadmans safety** system which is like a distance-distance **SIFA**. When the system is switched on (Shift-7) it is in '**Schnellgang**' (fast mode). This is used during shunting. A warning will sound after **50 meter**. To prevent this the driver needs to press the **pedal** (Space) before that or quickly after the warning. If the driver fails to press the pedal an **emergency braking** will occur after **100 meter**.

When the speed is over 20 kmh the system goes into 'Langsamgang' (slow mode). Now the warning sounds after 1600 meter. The driver must move the Throttle or Trainbrake or press the pedal (Space) before 1800 meter is travelled.

When speed is over 100 kmh the system will switch to **time mode**. The warning comes after **30 sec.** and an E-brake will occur after **35 sec**.

Failing to correctly operate the Wachsamkeitskontrolle causes An audible **warning** and eventually an **emergency stop**.





ZUB 121 Zugsicherung (1)

When passing a warning signal which shows a limited speed the **ZUB light** lights up and a **buzzer** sounds. The driver needs to turn the **Zugsicherung switch** (Q) to the right override the warning and slow down. If you go too fast (faster than the braking curve) a warning will sound.

When passing a **red signal** the **emergency brake** is applied instantly except when the **'manoever'** mode (Ctrl-M) is active.

When reaching **overspeed** the system also warns you by sounding an alarm which can be reset with the **ZUB button** again **after slowing down**.



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ZUB 121 Zugsicherung (2)

The ZUB display shows the next speedlimit when lower than the current limit. You need to watch the signals carefuly to stay within the limits.

The system also calculates a brakecurve when the route permits. The correct working of speedwarnings and brakecurves is highly dependant on the route and will not always work correctly.

Please only engage the ZUB system when on a suitable route (Gotthardbahn by Rivet Games). On other routes the basic AWS system will be used.



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Manoever mode

When shunting or needing to pass a red light at low speed, the driver can switch off the Zugsicherung temporarily by engaging the 'Manoever'mode (Ctrl-M).

When active the Manoever light comes on and the speedlimit is now 40 Km/h. It is now possible to pass a red signal without causing an emergencybrake.

On passing a red signal in this mode the ZUB buzzer and light will sound 3 times.





Winter

When driving in the winter season there will be electric arcing where the Panto touches the overhead catenary wire. This will happen automatically when in motion and will increase with higher power.

Snow will whirl off the bogies when at higher speed.

These effects can be switched off by pressing Ctrl-Shift-A





► Have fun driving the Re 620!

For more info read the full manual. If you have any further questions please press the green HELP tab on my website:

<u>WWW.TRAINWORX.EU</u>

The Re 620 is available in the webshop:

https://www.mersel.nl/product/sbb-cff-ffs-re-620-pack-for-ts20xx-v5/