



## Introduction

Congratulations! You have purchased the CreativeworX Re 620 pack (V4.0). Please take the time to read this manual before driving off in your new engine. This add-on is a major update on CreativeworX's first locomotive release. I hope you like the product and have many hours of fun with it. This add-on is officially licensed by SBB CFF FFS in Bern Switzerland. For more information and updates please visit : [www.creativeworx.nl](http://www.creativeworx.nl) and like/follow my Facebookpage : <https://www.facebook.com/CreativeworXforTrainsimulator>

## Special thanks

I want to express special thanks to some people without whom this product never would have seen the light. First off all many thanks to Chris Longhurst ([www.christrains.com](http://www.christrains.com)) who has helped numerous times during the building process. Thanx Chris! Secondly I want to thank Bruno Lämmli (<http://www.lokifahrer.ch/>) for his consults on Re 6/6 details and controls. Bruno made it possible to make the cab and controls as near as possible to the original engine. Merci Bruno! And last but not least I need to thank my testers Fredi Stierli and Herbert & Stefan 'Lemaster121' Gisler, Michael Aschwanden and Marco 'Freeskai' Schön (CH). These guys have helped me by testing (and positively criticizing) my work time and time again. On ZUB I had a lot of help from the guys at 'Freunde der Re 6/6' <https://www.facebook.com/groups/21646419753/>. Special thanks to Michel Huber for his help with the ZUB system Danke Schön!

## Installation

The zip file contains an installer for Trainsimulator 2015/16, this manual and EULA. Please read the EULA carefully before installing this software. This software is PAYWARE and may not be redistributed in any way or form without written consent from the author (CreativeworX).

1. Unpack the zip file
2. Start the installer : CwX\_RE620\_vXX.exe\_installer.exe. The XX is the current version.
3. Your new assets will now be installed in the 'CreativeworX' assets folder and the manual in the Manuals folder.
4. If you want to use these engines in your scenario please make sure you activate 'CreativeworX-CwX\_RE620' in the assets box (on the right)



## Included versions

This pack includes 9 versions of the Re 620:

Re 6/6 11604 'Faido' Prototype red

Re 6/6 11613 'Rapperswil' red, green and red weathered

Re 6/6 11622 'Suhr' red

Re 6/6 11626 'Zollikofen' red 'Schnautzi'

Re 6/6 11683 'Amsteg-Silenen' red

Re 6/6 11646 'Bussigny' green, old round lights

Re 620042 'Monthey' Cargo and weathered

Re 620087 'Bischofszell' Cargo

Re 620088 'Linthal' Xrail

**NOTE: The 622, 042 and 042W are also available as AI traffic with front panto raised. These can be used in AI double traction consists as front engine.**

## Controls

The pack comes with a fully functional Cab. This is the original Re 620 cab (no ETCS). Below you can find an explanation of the controls:







<b>Nr.</b>	<b>English</b>	<b>German</b>
1	Left Wiper	Wischer links
2	Right Wiper	Wischer rechts
3	Trainbrake	Zugbremse
4	Enginebrake	Locobremse
5	Sander	Sand
6	Speedometer	Geschwindigkeitsanzeige
7	ZUB display	ZUB anzeige
8	ZUB (AWS) Red button	ZUB Taste Rot
9	Servicelights	Dienstbeleuchtung
10	Compressor	Kompressor
11	Main switch	Hauptschalter
12	Panto up/down	Pantograf ab/zu
13	Highbeam	Fernlicht
14	Warninglight wheelslip	Schleuderlampe
15	Light 'Stufenschalter'	Stufenschalterlampe
16	ZUB Manouver switch (overrule AWS, max speed 40km/h)	Manoever Schalter
17	Instrumentlights	Instrumentenlicht
18	Reverser	Wendeschalter
19	Horn	Zugpiff
20	Combined Regulator/Dynamic brake	Fahrhebel (Rekuperations Bremse)
21	AWS acknowledgement (ZUB)	ZUB sicherungs freigabe
22	Taillight switch 1 (White-Off-Red-Off)	Stirnlicht 1 (Weiss-Aus-Rot-Aus)
23	Taillight switch 2 (White-Off-Red-Off)	Stirnlicht 2 (Weiss-Aus-Rot-Aus)
24	Taillight switch 3 (White-Off-Red-Off)	Stirnlicht 3 (Weiss-Aus-Rot-Aus)
25	Cablight	Fuehrerstandlampe
26	Schedulelight	Fahrplanlampe
27	Shades	Rollos
28	Handbrake	Handbremse
29	Control Current	Steuerstrom
30	Vigilancepedal	Wachsamkeitskontrollepedal
32	Mirror pedal	Spiegel Pedal
35	ZUB (AWS) Green Button	ZUB Taste Gruen
39	ZUB warninglight	ZUB warnungslampe





Use US international keyboard setting

Keyboard controls:

KeyMapping SBB CFF FFS Re 620 - CreativeworX							
Function	Funktion	Group		QWERTY	AZERTY	Action	Aktion
AWS/ZUB	Zugbeeinflussung	Safety		Q	Q	Acknowledge	Betätigung
Cabinelight	Fuehrerstandlampe	Lights		L	L	Forward-ON	Vorwärts-EIN
<i>Cabinelight</i>	<i>Fuehrerstandlampe</i>	<i>Lights</i>	Shift	L	L	Backward-OFF	Rückwärts-AUS
Combined Throttle D-Brake	Fahrschalter (Rekuperationsbremse)	Drive		A	A	Forward	Vorwärts
<i>Combined Throttle D-Brake</i>	<i>Fahrschalter (Rekuperationsbremse)</i>	<i>Drive</i>		D	D	Backward	Rückwärts
Compressor	Kompressor	Electric	Shift	Apostrophe (')	Ä	ON-AUTO-OFF	EIN-AUTO-AUS
Driving Current	Steuerstrom	Electric	Shift	S	S	ON-OFF	EIN-AUS
Emergency Brake	Notbremse	Brakes		Backspace	Backspace	ON	EIN
Enginebrake	Rangier(Zug)bremse	Brakes		Hook right (])	+	Increase	Mehr
<i>Enginebrake</i>	<i>Rangier(Zug)bremse</i>	<i>Brakes</i>		Hook left ([)	Ü	Decrease	Weniger
Handbrake	Feststellbremse	Brakes		Slash (/)	-	ON-OFF	EIN-AUS
Highbeam	Fernlicht	Lights		F	F	ON-OFF	EIN-AUS
Horn	Pfeife	Safety		B	B	ON	EIN
Instrumentlight	Instrumentenlicht	Lights	Ctrl	I	I	Forward-ON	Vorwärts-EIN
<i>Instrumentlight</i>	<i>Instrumentenlicht</i>	<i>Lights</i>	Ctrl	Shift I	I	Backward-OFF	Rückwärts-AUS
Main Switch	Hauptschalter	Electric		Z	Z	ON-OFF	EIN-AUS
Panto	Pantograph	Electric		P	P	Up-Down	Oben-Unten
Panto Arcing Override	Pantograph Blitz	Electric	Ctrl	Shift A	A	OFF-ON	AUS-EIN
Rearlight 1	Stirnlicht 1	Lights	Ctrl	1	1	Turn CW	Linksherum
<i>Rearlight 1</i>	<i>Stirnlicht 1</i>	<i>Lights</i>	Ctrl	Shift 1	1	Turn CCW	Rechtsherum
Rearlight 2	Stirnlicht 2	Lights	Ctrl	2	2	Turn CW	Linksherum
<i>Rearlight 2</i>	<i>Stirnlicht 2</i>	<i>Lights</i>	Ctrl	Shift 2	2	Turn CCW	Rechtsherum
Rearlight 3	Stirnlicht 3	Lights	Ctrl	3	3	Turn CW	Linksherum
<i>Rearlight 3</i>	<i>Stirnlicht 3</i>	<i>Lights</i>	Ctrl	Shift 3	3	Turn CCW	Rechtsherum
Rearview mirror	Spiegel	Safety	Ctrl	S	S	Deploy/Fold	Aus/Einklappen
Reverser	Wendeschalter	Drive		W	W	Forward	Vorwärts
<i>Reverser</i>	<i>Wendeschalter</i>	<i>Drive</i>		S	S	Backward	Rückwärts
Sander	Zand	Drive		X	X	ON	EIN
Servicelights***	Dienstbeleuchtung	Lights		H	H	Forward-ON	Vorwärts-EIN
<i>Servicelights</i>	<i>Dienstbeleuchtung</i>	<i>Lights</i>	Shift	H	H	Backward-OFF	Rückwärts-AUS
Train Brake	Zugbremse	Brakes		Numpad +	Numpad +	Increase	Mehr
<i>Train Brake</i>	<i>Zugbremse</i>	<i>Brakes</i>		Numpad -	Numpad -	Decrease	Weniger
Vigilance safety acknowlegement	Wachsamkeitskontrolle Betätigung	Safety		Space	Space	Acknowledge	Betätigung
Vigilance safety pedal (CH 1600m)	Wachsamkeitspedal Schnellgang (1600m)	Safety	Ctrl	Space	Space	ON-OFF	EIN-AUS
Vigilance system (CH 100m)	Wachsamkeitskontrolle Langsamgang (100m)	Safety	Shift	7	7	ON-OFF	EIN-AUS
Wiper Left	Wischer Links	Safety		C	C	OFF-SLOW-FAST	EIN-AUS
<i>Wiper Left</i>	<i>Wischer Links</i>	<i>Safety</i>	Ctrl	C	C	FAST-SLOW-OFF	EIN-AUS
Wiper Right	Wischer Rechts	Safety		V	V	OFF-SLOW-FAST	EIN-AUS
<i>Wiper Right</i>	<i>Wischer Rechts</i>	<i>Safety</i>	Ctrl	V	V	FAST-SLOW-OFF	EIN-AUS
Zug-Manoever	Zug-Manoever	Safety	Ctrl	M	M	ON-OFF	EIN-AUS

\*\*\* Default is AUTO



## First steps

After entering the cabine you should at least take the following steps to get moving:

1. Steuerstrom ON (**Shift-S**)
2. Panto UP (**P**). Toggle panto with **Shift-P**.
3. Mainswitch ON (**Z**)
4. Locobrake OFF (**I**), (default 70% on)
5. Trainbrake to 'Quick Release' (; or ')

## ZUB

ZUB is active after initiating the ZUB testsequence (Green Button). This simulated engine has a limited ZUB functionality. This is due to the fact that no routes with ZUB magnets are available yet. When this system becomes available there will be an update.

To test ZUB press the Green button on the ZUB panel. After the test has finished press the red button to stop braketest and activate ZUB. When passing a restrictive signal the ZUB alarm will sound and the red led will blink. Turn the ZUB knob or Press '**Q**' to acknowledge the warning. The next speedlimit will show on the display (Vziel). When driving too fast the alarm will sound and when speed is over 15 km/h too fast an emergency stop will be initiated. Reset an emergencystop by pressing the red ZUB button. When Vziel is higher than Vmax (140 km/h) the display will show ----.

## Wachsamkeitskontrolle

The SBB has a 'sifa' type vigilance system called 'wachsamkeitskontrolle'. This system is distance based (not time based as German sifa is). Switch the system on by pressing **Shift-7**.

After 50 Meters : Audio warning

After 100 Meters : Emergencybrake with buzzer

When keeping the the pedal down (simulated by **Ctrl-Spacebar**) the distances change:

After 1600 Meters : Audio warning

After 1800 Meters : Emergencybrake with buzzer

The system is reset by pressing the **spacebar** (Acknowledge) or by moving the regulator or trainbrakehandle.

## Manöver

Pressing the 'Manöver' switch (**Ctrl-M**) will make it possible to pass red signals without SPAD or Emergency brake. You have to stay under 40 Km/h (warning). This is normally used when shunting. This is not available when country is set to D.

## Mirrors

The mirror can be opened by pressing the small pedal below the SIFA pedal (**Ctrl-S**). This function is de-activated when country is switched to D.



## Winter

When the season is set to 'Winter' the engine will look frosty and has some snow on it. The Panto's will have an arcing effect where it touches the catenary wire and snow will swirl off the wheels. You can switch this off (active engine) by pressing **Ctrl-Shift-A**.

## Stufenschalter

The 'Fahrhebel' is controlling a step-switch (Stufenschalter) which regulates the power. It will take some 'getting used to' but is very close to reality. The Re 620 has 32 steps (stufen). You will hear the step-switch going through its positions. **M** will slowly increase power till 2150 amps. **+** (**plus**) quickly to 2400 amps and **++** (**double plus**) quickly to max power (3100 amps). The **dot** will freeze the current step, **-** (**minus**) will decrease power. The dynamic brake (Rekuperationsbremse) will electronically decrease the engines speed by using the same step-switch in reverse polarity up to 2200 Amps (22 steps). The **+** (**plus**) increases brake, the **dot** will freeze the position and the **-** (**minus**) will loosen the brake.

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### PAYWARE

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