

## **BR648 Quick start**

### **About**

LINT 41 consists of two parts. Some transportation companies offer ticket machines in the door area. The two-piece railcars have two 315-kilowatt (422 hp) engines.

The trains are mainly used in Northern Germany and North Rhine-Westphalia. They are also quite popular in other European countries. For example in Denmark they are being used by the largest non-state-owned operator,

Arriva (a total of 43 units: 30 delivered in 2004-2005, 11 delivered in 2010–11 and 2 delivered in 2012) as well as by Lokalbansen A/S and Regionstog (a total of 42 units delivered in 2006-2007). In the eastern provinces of the Netherlands, they are operated by Syntus.

They are also to be used in Canada after Alstom announced in September 2011 that six new trains would be purchased to operate on the O-Train line in Ottawa beginning in early 2014.

Lint 41 with its 115 seats is as much a classic as its big brother, the Lint 54, with its 150 to 180 seats.

# Includes

## This package contains:

### •Diesel Multiple Unit (DMU) BR 648

- Realistic sound effects (recorded from the real DMU). Optimized for EFX / Openall.
- Realistic cabin wheel/bogie sounds (stereo loops inside the cab).
- Hybride traction simulation.
- Authentic cab.
- Automatic wheelslip protection,
- Sifa Safety system (Zeit-Zeit-Sifa).
- PZB System. (Modus U ,M ,O )
- PZB Lim
- 2 pages display, include time.
- Tempomat /cruise control.
- Contact key,
- Handbrake control,
- Fern light,
- Doorlock system,
- Manual door closing systems
- Horn.
- Dynamic lights in the cab.
- Dynamic brakes controllable inside combined modus.
- Instrumental lights.
- Haltebremse simulation.
- Traction lock simulation.
- Autonumbering(only for destination signs and quick setup for ai traffic).
- Photo textured details.
- Skin friendly body textures.
- TS2012 features (raindrops on the windows and visible frontlights).
- Destination signs with various German,Dutch,Danish cities.
- Destination signs are ingame switchable or quick autonumbering setup.
- New German traindriver sitting only in the working cab(include yard/parked setup or ai setup).
- Quick drive compatible.
- Interval,speed1 and speed 2 wiper control
- Light glow on close and front lights.
- TS2015 optimized.

There are one scenarios included:

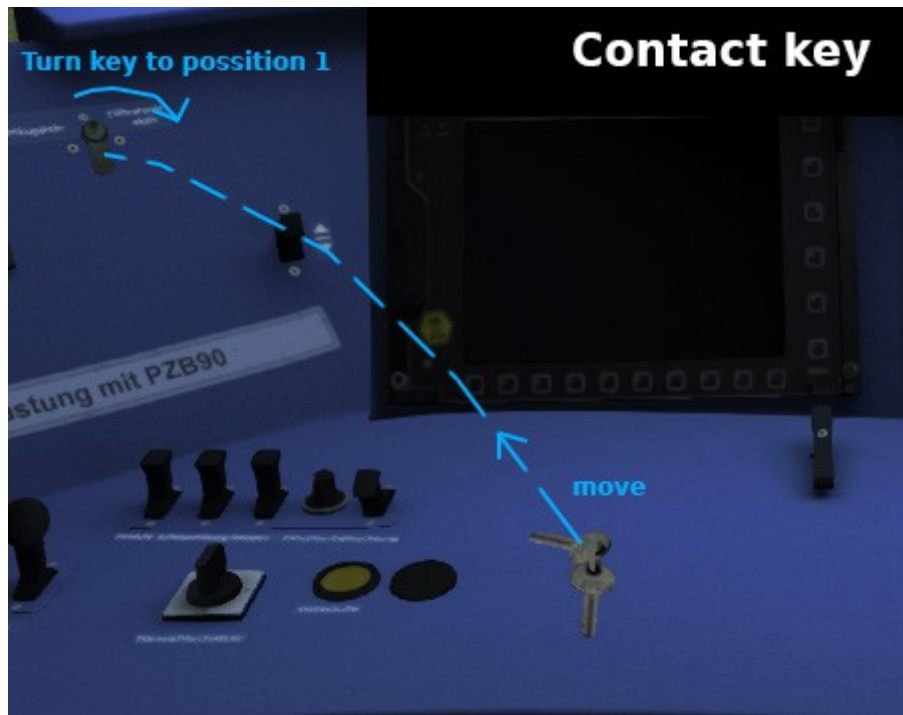
- BR648 Koblenz hbf - Bonn hbf stopping service

# Keyboard

Function	Keyboard
Increase / Decrease Throttle	A / D
Increase / Decrease Reverser	W / S
Increase / Decrease Train Brake	" / ;
Increase / Decrease Locomotive Brake	[ / ]
Increase / Decrease Dynamic Brake	. / ,
Emergency Brake	Backspace
Horn:	N
Sander	X
Headlights On / Off	H / Shift + H
Cabinlights	L
Instrument lights	Shift L
Wipers Toggle	V
Fast door unlock/lock key	B
PZB modus switch (hold combination till lights burn)	Control + Home
PZB toggle	Shift + Control + Home
PZB Wachsam	Page Down
PZB Frei	End
PZB Befehl	Delete
SIFA toggle	Shift + NumPad Enter
Confirm SIFA	Spacebar
Change destination display manually	Shift + / Shift - (please note: - and + on NUMPAD)
Tempomat / cruise control	Control – Shift – A

## Station approach





## Startup engine

1. Make contact with the contact key
2. Turn contact key to position 1
3. Start the engine
4. Release hand brake
5. Push reverser inside the driving direction

## Shutdown engine

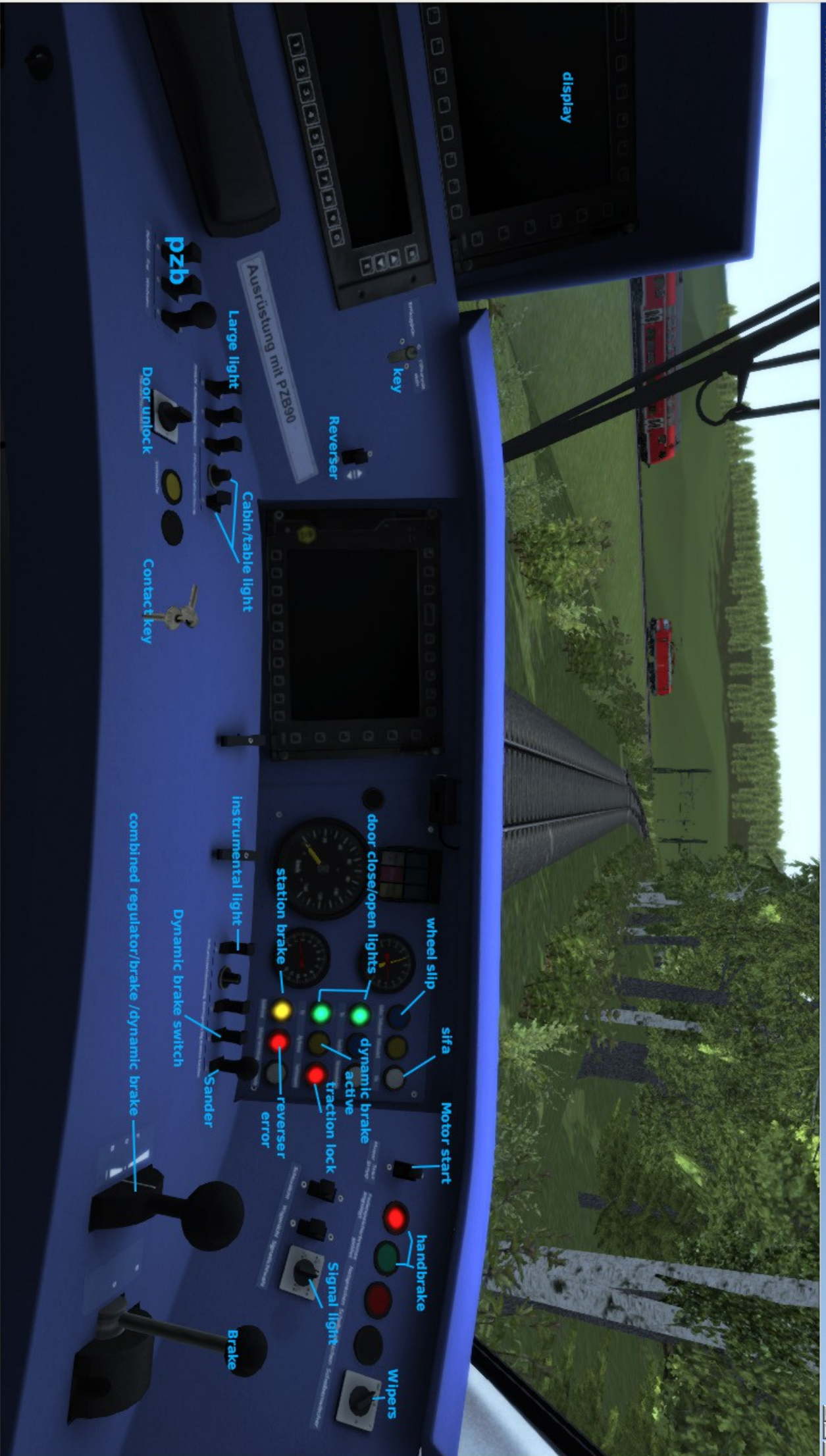
1. Push the brake lever up
2. Set reverser 0
3. Shutdown engine
4. Activate handbrake
5. Remove contact key



## Unlock doors

1. turn unlock button or Hud Bell key for unlock and lock
2. Press key T button and start loading.
3. Ready? Turn button back to 0 position and wait till green door lights burn again





display

key

Reverser

Anzeigung mit PZB90

pzb

Large light

Door unlock

Cabin/table light

Contact key

door close/open lights

station brake

wheel slip

sifa

Motor start

dynamic brake active

traction lock

reverse error

handbrake

Signal light

Wipers

instrumental light

Dynamic brake switch

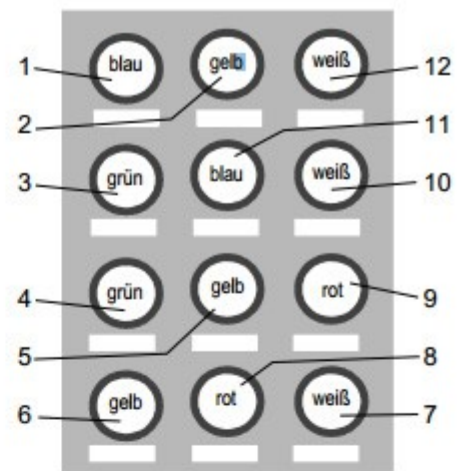
Sander

combined regulator/brake /dynamic brake

Brake







<p><b>1 Gleiten / Schleudern</b></p> <p>LM leuchtet, wenn der Gleitschutz Schleudern oder Gleiten erkannt hat.</p>	<p><b>2 Haltewunsch</b></p> <p>LM leuchtet, wenn ein Fahrgast die Haltewunsch-taste gedrückt hat</p>	<p><b>12 Sifa</b></p> <p>LM leuchtet, wenn Reaktion vom Tf erforderlich.</p>
<p><b>3 Türstellung</b></p> <p>Leuchtet, wenn alle Türen zu und verriegelt.</p> <p>Blinkt beim Schließvorgang, bis alle Türen zu.</p> <p>Ist aus, wenn Türen freigegeben sind.</p>	<p><b>11 Fernlicht</b></p> <p>LM leuchtet, wenn Fernlicht eingeschaltet ist.</p>	<p><b>10 Störsammelmelder</b></p> <p>LM blinkt, wenn die Fahrzeugsteuerung eine Störung erkannt hat. Fehlermeldung beachten.</p>
<p><b>4 Türstellung</b></p> <p>gleiche Funktion wie 3</p>	<p><b>5 Mg-Bremse</b></p> <p>LM leuchtet, wenn Mg-Bremse eingeschaltet</p>	<p><b>9 Traktionssperre</b></p> <p>LM leuchtet bei Traktionssperre. Display beachten.</p>
<p><b>6 Haltebremse</b></p> <p>LM leuchtet, wenn C-Druck &gt; 2 bar</p>	<p><b>8 Störung Fahrtrichtung</b></p> <p>LM leuchtet, wenn Wendegetriebe nicht in Endstellung.</p> <p>Display beachten.</p>	<p><b>7 Bremsprobe</b></p> <p>LM blinkt, solange der rechnergeführte Teil der Bremsprobe läuft.</p> <p>Der LM leuchtet beim Aufrüsten (Aufforderung zur rechnergef. Bremsprobe).</p>



1000 Nicht einsteigen  
1001 Dienstfahrt  
1002 Köln Hbf  
1003 Koblenz Hbf  
1004 Munchen Hbf  
1005 Augsburg Hbf  
1006 Hamburg Hbf  
1007 Hannover Hbf  
1008 Wildau  
1009 Hosvenn  
1010 Altenburg Hbf  
1011 Köblitz Hbf  
1012 Bad Rinckenburg  
1013 Magdeburg  
1014 Sangerhausen  
1015 Aschersleben  
1016 Trier Hbf  
1017 Dortmund Hbf  
1018 Berlin Hbf  
1019 Wittenberg  
1020 Freiberg (Sachs)  
1021 Siegen  
1022 RB Nürnberg Hbf  
1023 RB Neuhaus (Pegnitz)  
1024 RB Neustadt (Waldnaab)  
1025 Flöha  
1026 Dillenburg  
1027 Au (Sieg)  
1028 Lübeck  
1029 Bad Oldesloe  
1030 Neumünster  
1031 Uelzen  
1032 Düsseldorf  
1033 Mannheim Hbf  
1034 Mainz Hbf  
1035 Erfurt  
1036 Lüneburg  
1037 Arnhem  
1038 Doetinchem  
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1040 Venlo  
1041 Zutphen  
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1044 Esbjerg  
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