

# DR BR86 Locomotive



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## 1 Background

### 1.1 BR86 Steam Locomotive

The standard, or Einheitsdampflokomotive BR86 was built between 1928 and 1943 by many of the German locomotive manufacturers of the time including MG Karlsruhe, Friedr. Krupp AG and Henschel & Sohn etc. It was a 2-8-2 goods train tank locomotive that was intended for branch line usage and 776 were built. The routes it worked on the most were the ones that traverse Germany's central mountains, therefore the first 10 BR86s were fitted with Riggerbach counter-pressure brakes to reduce the wear on the wheels and brake blocks as they descended steeper than usual gradients.

Today, several BR86s have been preserved in various locations, some examples are: 86 001 in Chemnitz, 049 in VSE Schwarzenberg and 056, 333, 457 and 501 in ÖGEG (Austrian Society for Railway History). 86 457, a preserved DB example, was badly damaged by a fire in the no. 1 shed at the Nuremberg Transport Museum. In all there are 12 examples of the BR86 that are still around today, 9 of which are in Germany.

### 1.2 Design & Specification

<b>Total Built</b>	776
<b>Locomotive Weight</b>	70 Tons
<b>Vehicle Length</b>	13,820 mm
<b>Fuel Capacity</b>	4t Coal, 9m <sup>2</sup> Water
<b>Top Speed</b>	70-80 km/h
<b>Brake Types</b>	Air
<b>Power</b>	758 kW



## 2 Rolling Stock

### 2.1 DR BR86 Locomotive



### 2.2 Shimmns Wagon



## 2.3 Ucs Wagon





## 3 Driving the BR86

### 3.1 Cab Controls



1	Feed Water Pump Control	17	Loco Brake
2	Blower	18	Cylinder Cock
3	Injector Steam Supply	19	Headlight Switch
4	Turbo Generator	20	Cab light Switch
5	Water Level	21	Gauge Class light Switch
6	Steam Heat Control	22	Inspection Lights
7	Regulator	23	Pneumatic Blowdown Valve
8	Firebox Door	24	Handbrake
9	Gauge Lights	25	Tender Water level Gauge
10	Right Safety Valve Easing Lever	26	Lifting Injector Steam Valve
11	Steam Sanding Valve	27	Lifting Injector Water Feed
12	Reverser	28	Dampers
13	Air Compressor Isolating Valve	29	PZB Override
14	Horn	30	PZB Free
15	PZB Light Test	31	PZB Acknowledge
16	Train Brake		

## 4 Scenarios

***\*\*For driving tutorials, please visit the Academy from the main TS2016 menu screen\*\****

### 4.1 [86] 1. Going on an Adventure: Part 1

After years of sitting in the museum following its preservation, 86 1049-5 has been scheduled for two Rail Tour runs. Today, you will be running an express passenger from Brohl to Koblenz, with priority over everything on the lines today.

**Duration:** 40 Minutes

**Difficulty:** Easy

### 4.2 [86] 2. Going on an Adventure: Part 2

Time to hit the lines on your scheduled second Rail Tour. Starting at Bonn, you will be running all the way to Köln, stopping at all main stations on the way. Yesterday's Rail tour was very successful, can we keep up the morale today and impress?

**Duration:** 40 Minutes

**Difficulty:** Easy

### 4.3 [86] 3. Steaming Through

A demonstration of a freight run in this classic locomotive from Koblenz to Brohl is disrupted by a forerunning train and heavy snowfall.

**Duration:** 25 Minutes

**Difficulty:** Hard



## 5 Acknowledgements

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Beta Testing Team  
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