



GWR 2800 CLASS FOR TRAIN SIMULATOR

User Manual

INTRODUCTION:

The GWR 2800 Class was the first 2-8-0 wheel arrangement locomotive designed for use on Britain's railways. Designed by G.J.Churchward, full production of the class began in 1905, with the final batch built in 1919, the final number being 2883. Design changes and refinements were incorporated as batches were built, with the oldest examples receiving many of these refinements during their lifetime. The 2800 class were almost exclusively paired with the Churchward 3500-gallon tender. From the time of their initial production right through to the end of steam on the Western Region, the GWR 2800 Class(alongside the 2884 Class) were the primary mover of long-haul freight.

A total of 84 of these locomotives were built at Swindon Works between 1905 and 1919. The axle loading classification was blue(up to 17 tons), meaning that they could traverse a lot of the GWR network. Other GWR power classifications include Yellow(up to 16 tons), Red(up to 20 tons) and Double-Red(22 tons). The power classification was set at E. Only the King Class had a higher power classification.

Withdrawals of the class began in 1958. Initially it was only a small number being withdrawn, but between 1958 and 1965 the numbers withdrawn increased until only 2876 was left in 1965. Thankfully 6 of these beautiful and powerful locomotives have been preserved. 2818 was preserved straight from service and was part of the national collection until recently. It is now based at 'Steam' – the Great Western museum at Swindon. 2807 is the oldest survivor and is based on the GWSR. 2857 is based on the Severn Valley Railway and has just passed 100 years since it was built.

The later locos numbered from 2884 onwards were classified as the '2884 Class' and do not feature in this pack.

SPECIFICATIONS:

- Built 1905-18
- Total Built – 84
- Wheel Arrangement – 2-8-0
- Number of Cylinders – 2
- Cylinder Size – 18.5 x 30in
- Driving Wheel Diameter – 4ft 7½ in/1.410m
- Boiler Pressure – 225psi
- Tractive Effort – 35,380 lbf
- Power Rating – GWR = E; BR = 8F

FEATURES:

- Complete 2800 Class from 1905 Batch onward
- 3500-gallon tender in all suitable Liveries & logo styles
- Realistic Fully Functioning Cab
- Carefully created simulation for realistic performance
- Performance Mode
- Numerous Camera Views
- Period Accurate Customisable GWR Lamps
- 3D Firebox & Coal
- Dynamic Particles
- Quick Drive Ready
- Locomotion 1.3 Script
- Tender Functionality Including Lamps, Water Scoop & Handbrake
- Advanced Safety Valves & Chimney Particles
- Fire Intensity Synchronized with Exhaust Beat



VARIANTS:

- GWR | 1905-22 | Lined | 'Churchward Livery'
- GWR | 1923-34 | 'Great Western'
- GWR | 1934-42 | 'Shirtbutton'
- GWR | 1942-49 | 'GWR'
- GWR | 1942-45 | Wartime Black | 'GWR'
- BR | 1949 | Black | 'BRITISH RAILWAYS'
- BR | 1949-56 | Black | 'Early Crest'
- BR | 1949-56 | Black | Weathered | 'Early Crest'
- BR | 1956-65 | Black | 'Late Crest'
- BR | 1956-65 | Black | Weathered | 'Late Crest'
- GWR | 1942-49 | 'GWR' | Preserved 2807 + 2857 | Polished Safety Valve Bonnet

CONTROLS:

Control Name	Key Commands	Additional Comment
Regulator	A + D	This is the basic regulator control. There is no steam chest simulation on this model.
Reverser	W + S	Changes direction + helps with efficient use of steam. Move reverser as speed increases.
Train Brake +/-	;/	Basic train brake. ' increases brake application, whereas ; moves towards release
Ejector	J	With brake handle moved to running position, the ejector will release the brakes
Main Whistle	Space	A random selection of long whistles ideal for when the train is in motion
Secondary Deep Whistle	B	A deep toned second whistle used for shunting instructions to guard
Random Short Whistles	Ctrl+Space	Random shorter whistles ideal for moving off from stationary

Control Name	Key Commands	Additional Comment
Drain Cocks	C	Opens and closes the cylinder drain cocks. Use if you have been stationary for a while
Sander	X	This will help you grip the rails when it is either raining or snowing.
Blower +/-	N/Shift+N	Increases air flow through the fire to increase steam production. Use when stationary or coasting.
Tender Handbrake	/	Apply the tender handbrake when stationary. Remember to release to move off!
Water Scoop +/-	Ctrl+T/Ctrl+Shift+T	Apply the tender handbrake when stationary. Remember to release to move off!
Cab Light	Ctrl+L	A lamp will light up the cab for you when driving at night
Lamps - Loco	Ctrl+I, 2, 3 & 4	Change what lamps show on the locomotive
Lamps - Tender	Ctrl+Shift+I, 2, 3 & 4	Change what lamps show on the tender
Headboards(2807+2857 <u>only</u>)	Ctrl+H	Toggle through a selection of headboards on the preserved locos only
Performance Mode	Shift+P	Turn on/off lighting and effects that drain computer resources

PERFORMANCE MODE:

Performance mode features on these locomotives. What is the purpose of it? It is for the benefit of those with lower-end PC's to run these locomotives happily without experiencing regular CTD's. Use the control as described in the above table to turn it on/off.

CUSTOMIZATION:

When you load a GWR 2800 locomotive into Train Simulator scenario editor, a random number will be chosen from the list of 84 locos in the class. A variety of fittings can be changes by using the loco number field. These will be preset to their historic fittings. However, you may wish to change these to your liking. Here is how:

Code: **RN** = Running Number | **PM** = Performance Mode | **SP** = Outside Steam Pipes | **SB** = Front Support Beams | **TF** = Top Feed

Place a loco on the track and double-click on it to bring up the number field(right-hand flyout window)

Example loco number: **RN=2800;PM=0;SP=0;SB=1;TF=1**

Running number = 2800

Performance Mode = Off

Outside Steam Pipes = Off

Support Beams = On

Top Feed = On



Note: The level of customization available will depend on the era of locomotive you load. For example, from the 1934 locomotives onward, the top feed and support beams become a permanent feature.

HOW TO USE THE LOCOMOTIVES IN TRAIN SIMULATOR:

Getting Started

To find the locomotives in Train Simulator you will find scenarios and Quick Drive available featuring the locomotive in various forms.

Scenarios

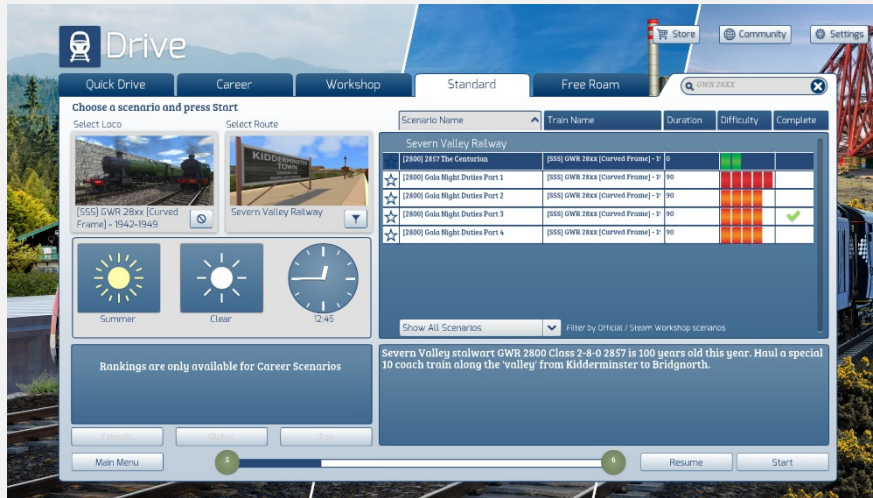
Click on Drive > Standard. Type into the search box GWR 28xx. This will bring up the loco types that have Standard Scenario created for them.



If you click on [SSS] GWR 28xx [Curved Frame] – 1942-1949, this will bring up the following scenario created for the Wycombe Railway & Joint Line route(see below for requirements)



If you click on [SSS] GWR 28xx [Curved Frame] – 1942-1949 [Preserved] a set of scenarios for 2857 on the Severn Valley Railway will come up(see below for requirements)



[2800] Cowley Car Transport | Wycombe Railway & Joint Line(Available [HERE](#))

During the 1930's the transportation of cars was a huge part of the freight movement on the railways. Morris Cowley played a major role in the car construction industry. These cars needed moving from the factory and delivering around the country. Of course, the railways were the perfect way to do this. Morris Cowley sent cars all around the country. In this scenario you will haul a rake of GWR Damo A and Damo B vans from the Morris Cowley site along the Thame branch to Princes Risborough, from where the train will be stored in the north sidings awaiting being marshalled onto other services heading north and into London. Our loco for this duty would usually be a Mogul, but as it failed on shed this morning, a 2800 was sent out in its place. A little bigger than usual!

Requirements:

- Riviera in the Fifties – *Steam*
- European Assets Pack – *Steam*
- GWR 43xx – *Digital Traction*
- MT GWR Collett's Sets 1 & 2 – *Steam*
- MT GWR High Waist Collett's Sets 1, 2 & 3 – *Steam*
- MT Hawksworth's Sets 1 & 2 – *Steam*
- Falmouth Branch – *Steam*
- Woodhead Route – *Steam*
- Wear Valley Route – *Steam*
- Wycombe Railway Wagon Pack – *Steam Sounds Supreme*
- GWR 14xx – *Steam*
- GWR 42xx – *Steam Sounds Supreme*
- GWR Large Prairies – *Steam*
- GWR Pannier Tanks – *Steam*
- GWR Saint – *Steam*
- West Somerset Railway – *Steam*
- Isle of Wight – *Steam*
- AP Skies & Weather Enhancement Pack – *Armstrong Powerhouse*

Note: The requirements in *red* are most important

[2800] 2857 The Centurian | Severn Valley Railway(Available [HERE](#))

Severn Valley stalwart GWR 2800 Class 2-8-0 2857 is 100 years old this year. Haul a special 10 coach train along the 'valley' from Kidderminster to Bridgnorth. It still shouldn't make her sweat, but at least we might get some good noise from the old girl. Stop at all stations.

Requirements:

- AP Mark Ones – *Armstrong Powerhouse*
- Riviera in the Fifties – *Steam*
- Western Hydraulics Pack – *Steam*
- MT LMS Period 3 Sets 1 & 2 – *Steam*
- MT GWR Collett's Sets 1 – *Steam*
- MT Gresley Teaks Sets 1, 2 & 3 – *Steam*
- MT LMS(BR) Portholes Set 1 – *Steam*
- MT GWR High Waist Collett's Sets 1 & 2 – *Steam*
- MT Hawksworth's Sets 1 & 2 – *Steam*
- MT Toplights Panel Set 3 – *Steam*
- Stainmore Route – *Steam Sounds Supreme*
- GWR 14xx – *Steam*
- GWR Large Prairies – *Steam*
- *New* GWR Manor – *Steam Sounds Supreme*
- GWR Pannier Tanks – *Steam*
- Small Prairie Pack – *Steam*
- European Assets Pack – *Steam*

Note: The requirements in *red* are most important

[2800] Gala Night Duties Parts 1-4 | Severn Valley Railway

The annual autumn steam gala at the Severn Valley is a unique event. Not only does it offer one of the busiest daytime timetables you will find at any autumn steam event, but it also offers the unique opportunity to enjoy steam right through the night. In fact, from 8am Friday morning until 6pm Sunday evening, trains are running non-stop! There is nothing else like it anywhere in the world! This year our Great Western heavy-weight GWR 2800 Class 2857 will haul an authentic nighttime GWR goods train. We begin coupled and ready to depart Bewdley in part 1. Parts 2 & 3 see you handling nighttime passenger duties and part 4 sees you back on the freight.

*****Good route knowledge a MUST to complete these scenarios successfully!!*****

Requirements:

- AP Mark Ones – *Armstrong Powerhouse*
- AP Class 50 – *Armstrong Powerhouse*
- Rebuilt Bulleid Pacific – *Just Trains*
- Rebuilt Bulleid Expansion Pack – *Steam Sounds Supreme*
- Riviera in the Fifties – *Steam*
- MT LMS Period 3 Sets 1 & 3 – *Steam*
- MT GWR Collett's Sets 1 & 2 – *Steam*
- MT Gresley Teaks Sets 1 & 3 – *Steam*
- MT GWR High Waist Collett's Sets 1 & 2 – *Steam*
- MT Hawksworth's Sets 1 & 2 – *Steam*
- MT Toplights Panel Set 3 – *Steam*
- Duchess of Sutherland Pack – *Steam*
- GCR Wagons Collection – *Steam Sounds Supreme*
- GWR 14xx – *Steam*
- *New* GWR Manor – *Steam Sounds Supreme*
- Small Prairie Pack – *Steam*
- Western Hydraulics Pack – *Steam*

Note: The requirements in *red* are most important

[2800] Brute Force 2 – Going Great Western | Keighley & Worth Valley Railway(Available [HERE](#))

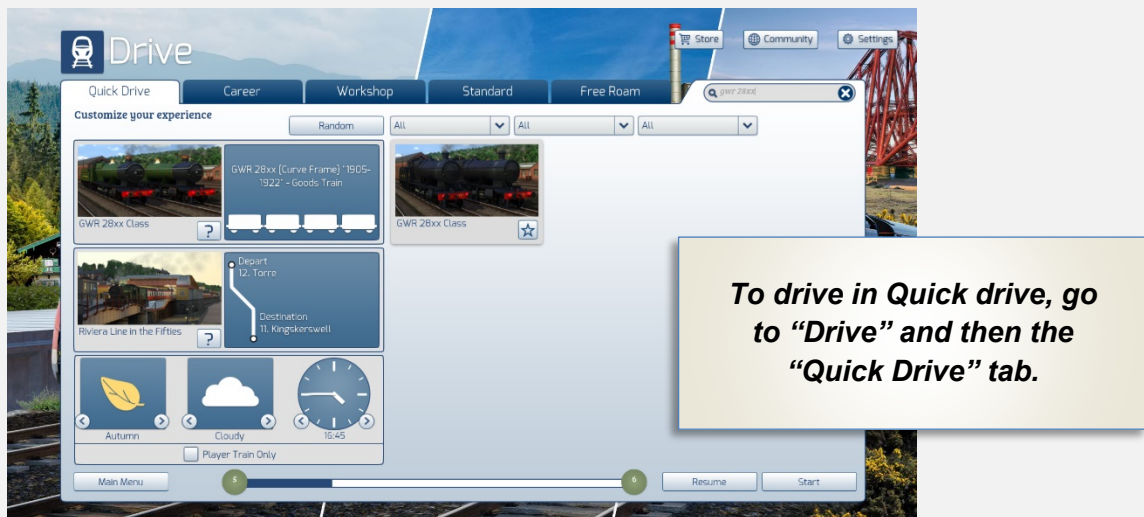
Two years ago, our winter gala concluded with our S160 taking 10 coaches up the average 1in50 gradients to Oxenhope. Well this year the boys from the 2807 team were determined to give their engine the same challenge, so here we are again with another 10-coach special. We start at Keighley where we will form our train before heading off for Oxenhope stopping at Haworth only.

Requirements:

- MT Bulleid Carriage Set 1 – *Steam*
- Industrial North – *Steam*
- LNWR Coal Tank – *Caledonia Works*
- WD Austerity 2-8-0 – *Steam Sounds Supreme*
- *New* GWR Manor – *Steam Sounds Supreme*
- USATC S160 Pack – *Steam*
- KWVR Loco & Rolling Stock Pack – *With Route*

Quick Drive(QD)

The pack comes with a set of QD consists created for the Riviera in the Fifties route.



Click on the locomotive image on the top-right of the screen. Then type GWR 28xx into the search field. Then click on the GWR 28xx Class. Choose your consist, then the route and journey you wish to make

Select your time of day, season and weather and press start.

Make Your Own Scenario

Go to “Build”, click on the Scenario tab. Find the route you wish to make a scenario for. Select the route then click on “New Scenario”. Name the scenario > Choose the scenario type you want to create > Select your start point > Create.

To place a 28xx loco onto the track, enable the Provider/Product: **SSS\GWR_28xx**.

Select the Locomotives tab. You will find all the locos and tenders listed under the prefix **[SSS] GWR**

When you place a loco on the track, use the information in the *Customization section* of this document to guide you in adding a locomotive number of your choosing.

Scenario creation is beyond the scope of this manual, but there are plenty of tutorials available – this one is a good starting point from Matt at DTG <https://www.youtube.com/watch?v=-MIDHGyinkKs>

USAGE AND DISTRIBUTION

- This pack is for download exclusively from **www.steamsoundssupreme.com**. It must not be uploaded to any other site or re-distributed in any form.
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- The locomotive and all its parts have been created exclusively for Steam Sounds Supreme. It MUST NOT be uploaded to any file sharing site.
- The locomotive may be *referenced* in any freeware scenario the user creates. But they MUST NOT be included in any freeware route upload package. Creation of payware scenarios using these locos may only be done after receiving written permission from both Steam Sounds Supreme AND Caledonia Works
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CREDITS:

- Steam Sounds Supreme would like to personally thank all you who purchase this product and especially those who have waited patiently since making your PREORDER.
- We also thank those who lovingly preserve and look after the beautiful 2807 and 2857. This pack would not have been possible without these gems of preservation!

Caledonia Works would like to thank the following:

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