3 4 2

Award Favorited Share



The TS Classic Owner's H

By Warwick Rail

Find missing DLC and bring back missing scenery. Impr
the simulation, either in 64-bit or 32-bit. Optimise you
fix video configuration issues. Access workshop and qu
keyboard controls and drive your train effectively, whe
past stubborn red lights and prevent emergency brake

DLC Manuals
------ OPTIMISATION ------
Getting the Game to Load
Running in Borderless Mode
Graphics Card Settings
GPU Scheduling
Windows Game Mode
Run as an Administrator
Game Settings
Frame Rates (FPS)



--- FIND MISSING STUFF ----

Quick Drive Routes

Are certain routes missing from your Quick Drive Menu?

From time to time, and for various reasons, you may suddenly notice that most of the routes in your Quick Drive Menu have disappeared.

Fortunately this is a caching issue and is easily remedied.

The in-game cache can become corrupted by crashes or by interrupting the loading process. If the cache has become corrupted, it may be necessary to force the game to rebuild the cache by deleting the existing cache files.

Go to your RailWorks folder, then open the Content folder and remove following files:

SDBCache.bin

3 4 2
Award Favorited Share

TMCache.dat.MD5

Now restart Train Simulator.

This will rebuild your routes database, and all the routes which had previously disappeared will now reappear.

You can create a batch file to do this.

Type the following in notepad (or any other text editor) and save the file as ClearCachcs.bat

```
del SDBCache.bin
del SDBCache.bin.MD5
del RVDBCache.bin
del RVDBCache.bin.MD5
del TMCache.dat
del TMCache.dat.MD5
pause
```

Place this file in your Railworks\Content folder and run it to clear the cache manually.

You can create a shortcut to this batch file and place it on your desktop for convenience.

Scenery Objects

When you run the game, if you notice that certain scenery objects are missing (bridges, buildings etc.) it's probably because your scenery density level needs adjusting to a higher level in the game settings.

Here's how to fix it.

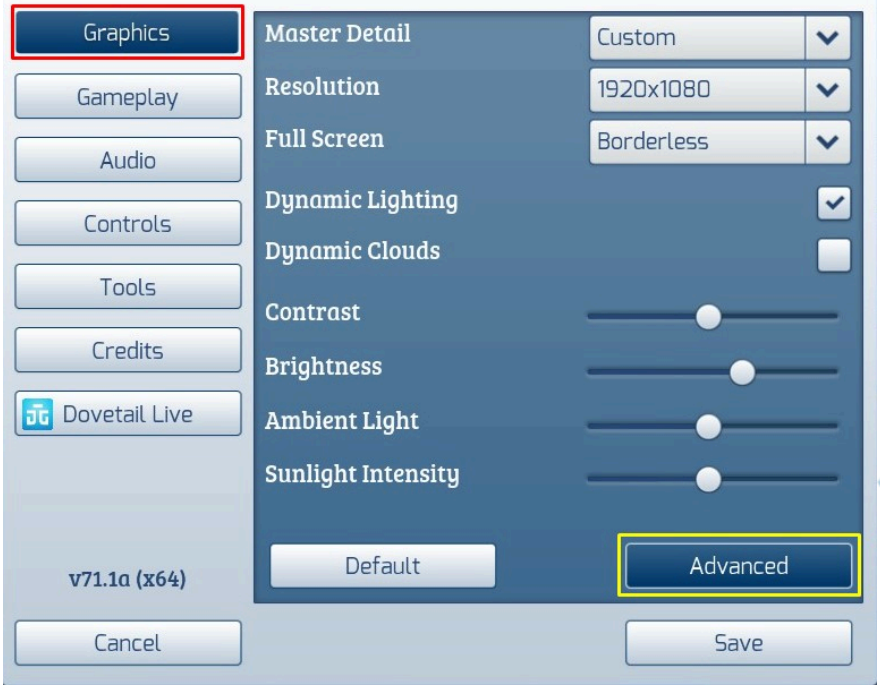
Here is the main settings menu. Click on the Graphics button and then choose Advanced.

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share

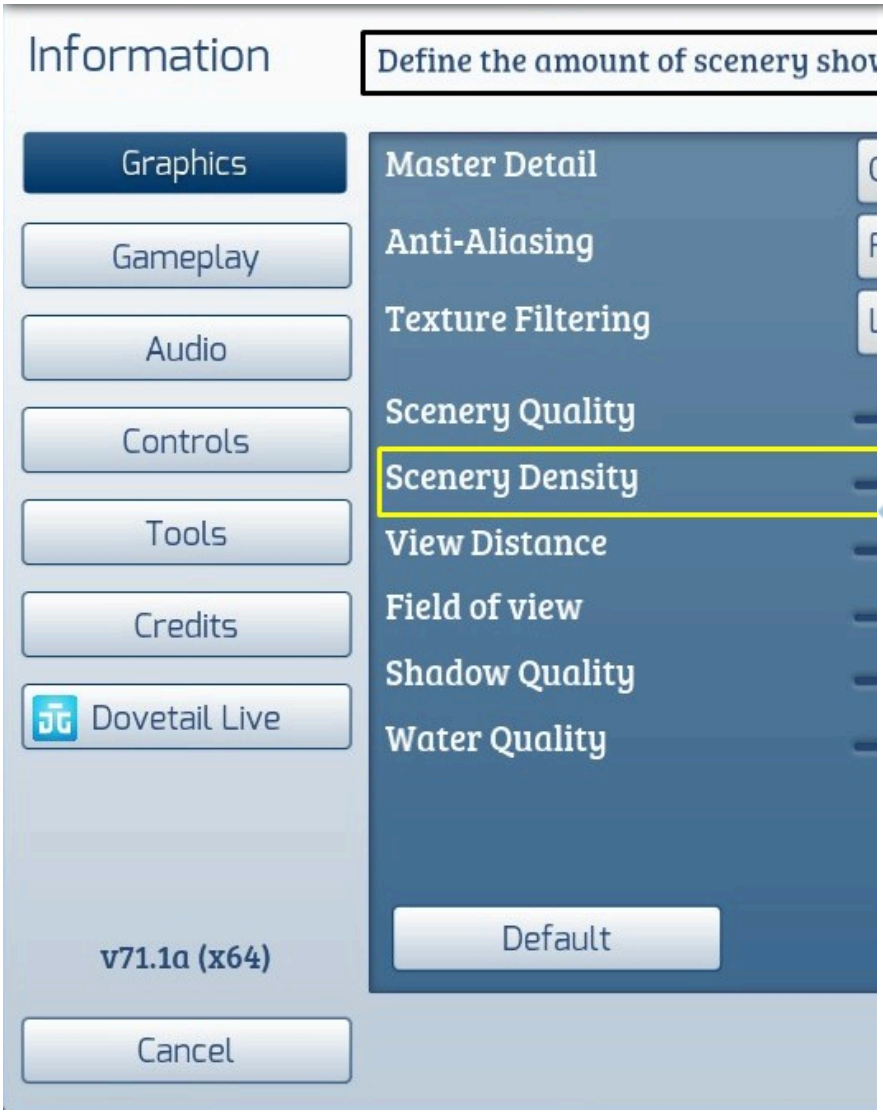


DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

When the next window opens, adjust the amount of scenery shown. It's called Scenery Density. Just slide it all the way to the right. Then click Save.

3 4 2

Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

You will need to re-start the game for the new settings to take effe

All scenery objects in the game will now show up, and previously 'i
seen throughout.

Loco & Route DLC

Do you suspect that Steam has not correctly downloaded and insta
advice in this section has been copied directly from the forum.

Steam will usually automatically download any content you have pu
key for but in the rare occurrence that it doesn't you should try the

- Open the Steam "Library" tab from within the Steam client.



Award Favorited Share

If the “State” updates to “Installed” after a short delay your item ha
is available in the game

If the “State” still shows as uninstalled after waiting a short while pl

-Clear your download cache within the Steam client: Clear downloa
-Go to the following folder (default location): C:\Program Files (x86
-Delete the "Steamworks Shared" folder (if you have it; be sure to c
Steam is not installed to your C: drive)
-Go into the folder for Train Simulator and delete the "_CommonRe
-Verify the Integrity of your game files. The next section in this guic
-Re-launch Train Simulator

You should then find that your content is now downloaded and ava

If you find that the content is still not installed we would suggest cc
Support advising them you have tried all of the above steps: https:/

Verify Game Files

It is a good idea to verify the integrity of your game files when you
(OOM) error or indeed any other unexplained problem..

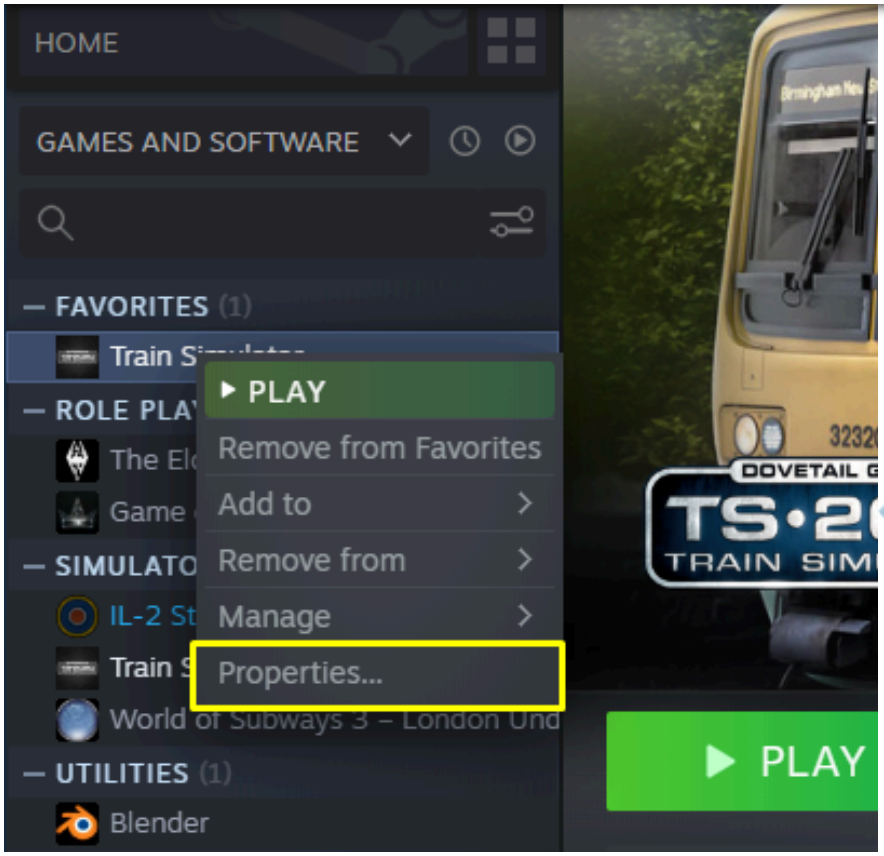
It can be done via the Steam Library Page.

First right click on Train Simulator to bring up the dialogue, then sel

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2

Award Favorited Share

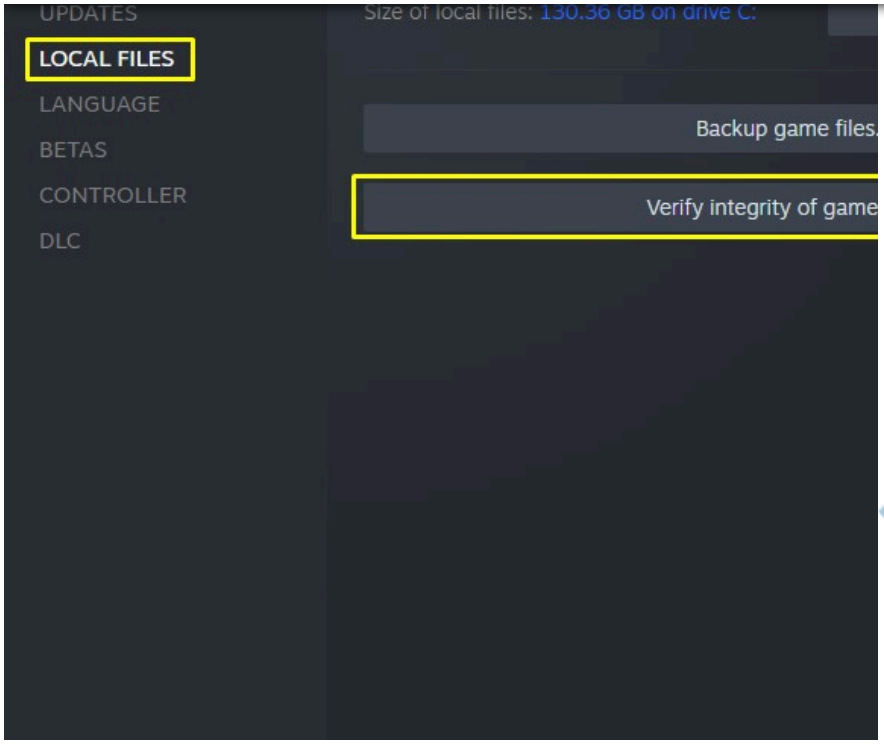


DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

Now choose Installed Files and then Verify Integrity of Game Files

3 4 2

Award Favorited Share



With a solid state drive (SSD), this process should only take a few n
of DLC installed.

One or more files may fail to verify.

This is normal for most Steam games. The files that fail to verify are
should not be replaced as part of this process. You can safely ignor

Steam Support FAQ

DLC Manuals

As a general rule, if you already own an item of DLC, you will be abl
following folder on your computer.

C:\Program Files (x86)\Steam\steamapps\common\RailWorks\Manu

But, for route manuals, there is an easier and much more convenier

TS Routes & Scenarios [www.railsims.com]

If it's just loco manuals you're after, and you don't yet own the item
look at the list of all available DLC, find the loco you are looking for
from its store page.

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share

DLC Name (click to acquire it)	Link to Open the Manual	Developer
Fowler 4F Loco	Manual [sites.google.com]	Dovetail Game
South West Trains Class 444 EMU	Manual [sites.google.com]	Dovetail Game
Southern Class 421 '4CIG' EMU	Manual [sites.google.com]	Dovetail Game

If you are still unable to find the manual, ask others in the forum if

------ OPTIMISATION ------

Getting the Game to Load

If you encounter problems getting the game to load, there are a nu
which may help. We suggest you try them one by one in the follow

1. Delete the file PlayerProfiles.bin which is found in C:\Program
(x86)\Steam\steamapps\common\RailWorks\Content
A new Profile will automatically be created when you re-start

2. Clear the cache. Of course you will need to do this outside of
it started. This guide says how.



Clear Cache outside game

A Guide for Train Simulator Classic 2024
By: Mavadelo
Now to clear cache outside Train Simulator

3. Check that your windows resolution settings match the moni
access to the game, check that your TSC settings do not exc
settings.

4. Verify the game's files are installed correctly. It can be done
First right click on 'Train Simulator' to bring up the dialogue, t
choose 'Installed Files' and then 'Verify integrity of game file

If you still can't load the game, do a search of the community forun
If not, post details and ask for suggestions.

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2

Award Favorited Share

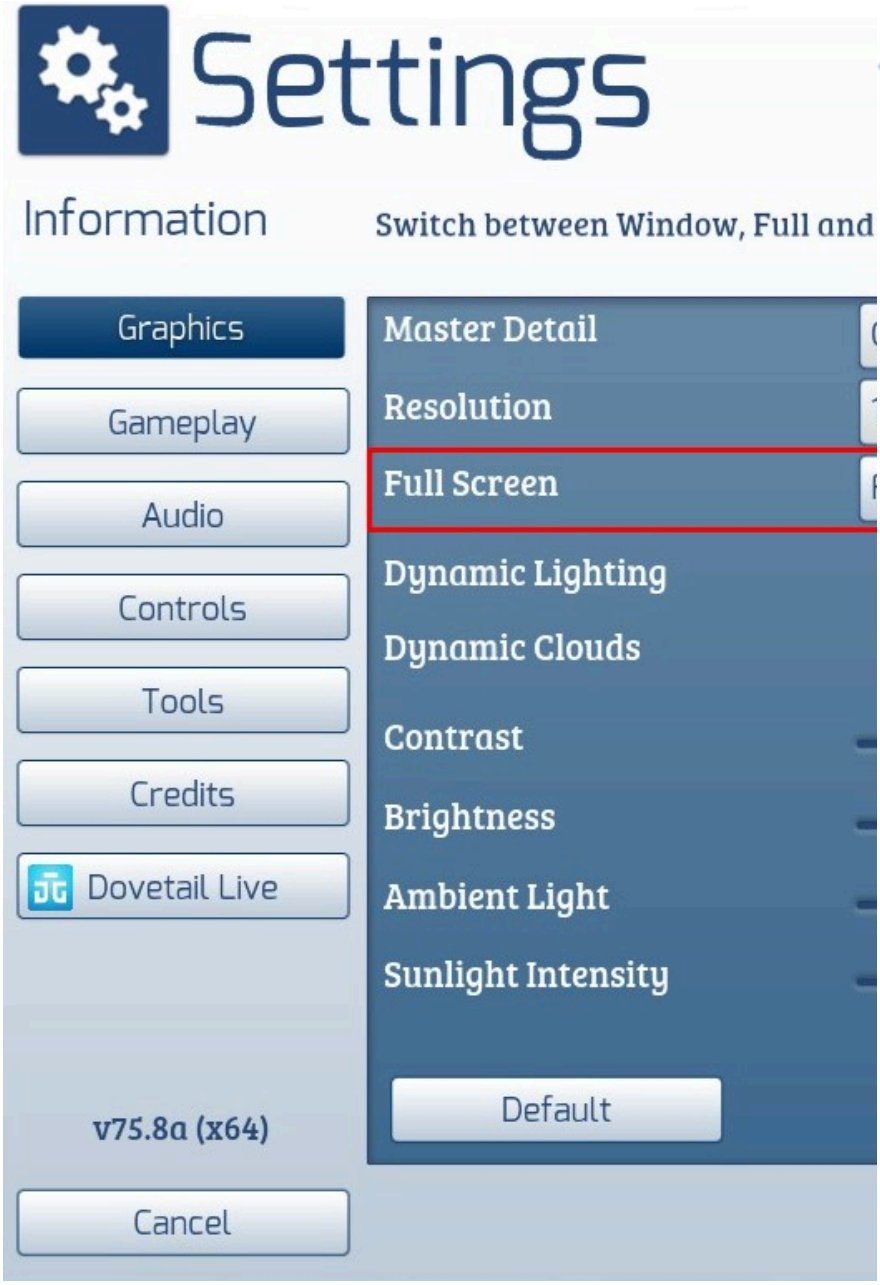
Running in Borderless Mode

By default, Train Simulator Classic is set to run in Full Screen Mode. instability and errors - especially when using the Alt-Tab function to running programs.

Therefore, we highly recommend changing the setting to run the ga

Start Train Simulator and click the 'Settings' button.

The third item on the Graphics page is Full Screen and by default th

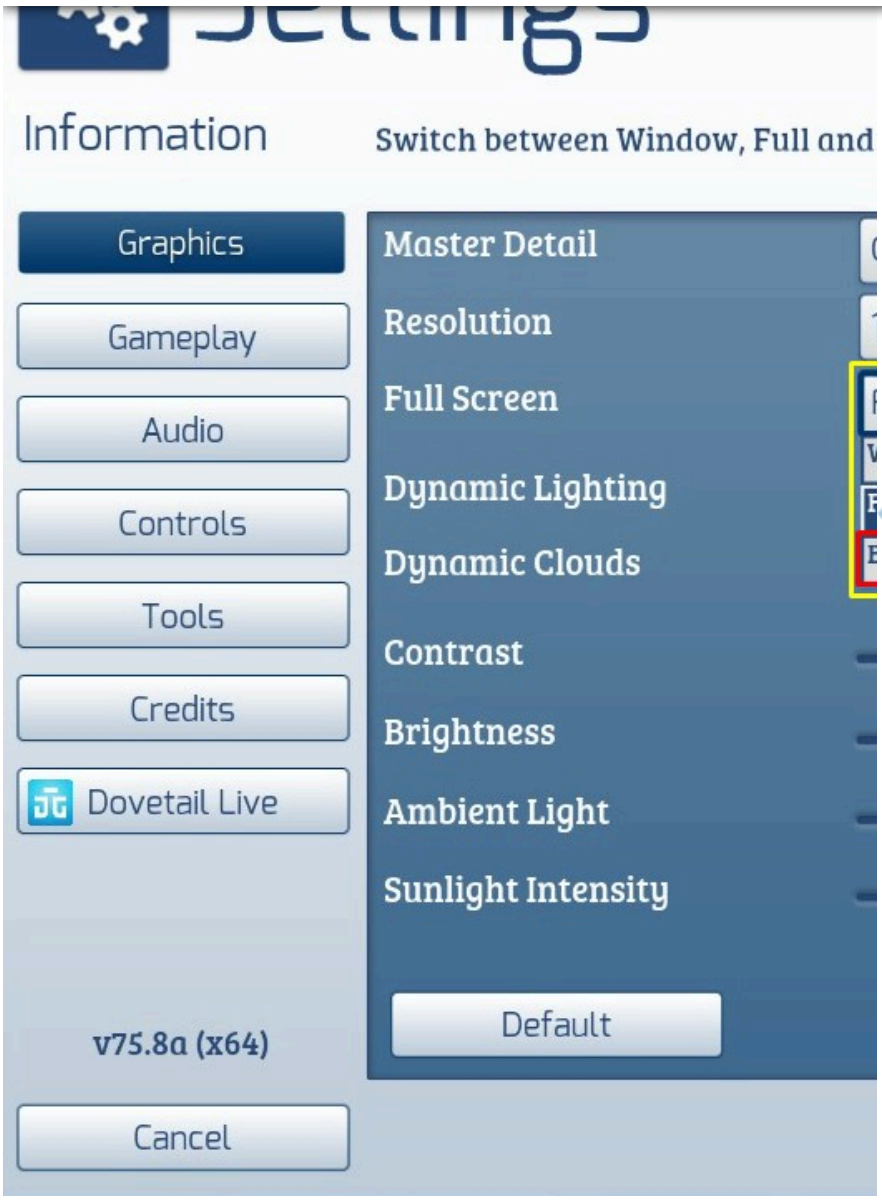


DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



Please note: The second item on the Graphics page is your game R should be set to match the screen resolution you are currently usin recommended by Dovetail Games as the ideal resolution for smoot

Now we have changed the setting to 'Borderless' all we have to do done.

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

Stability will be improved, and Alt-Tabbing will be smooth and error

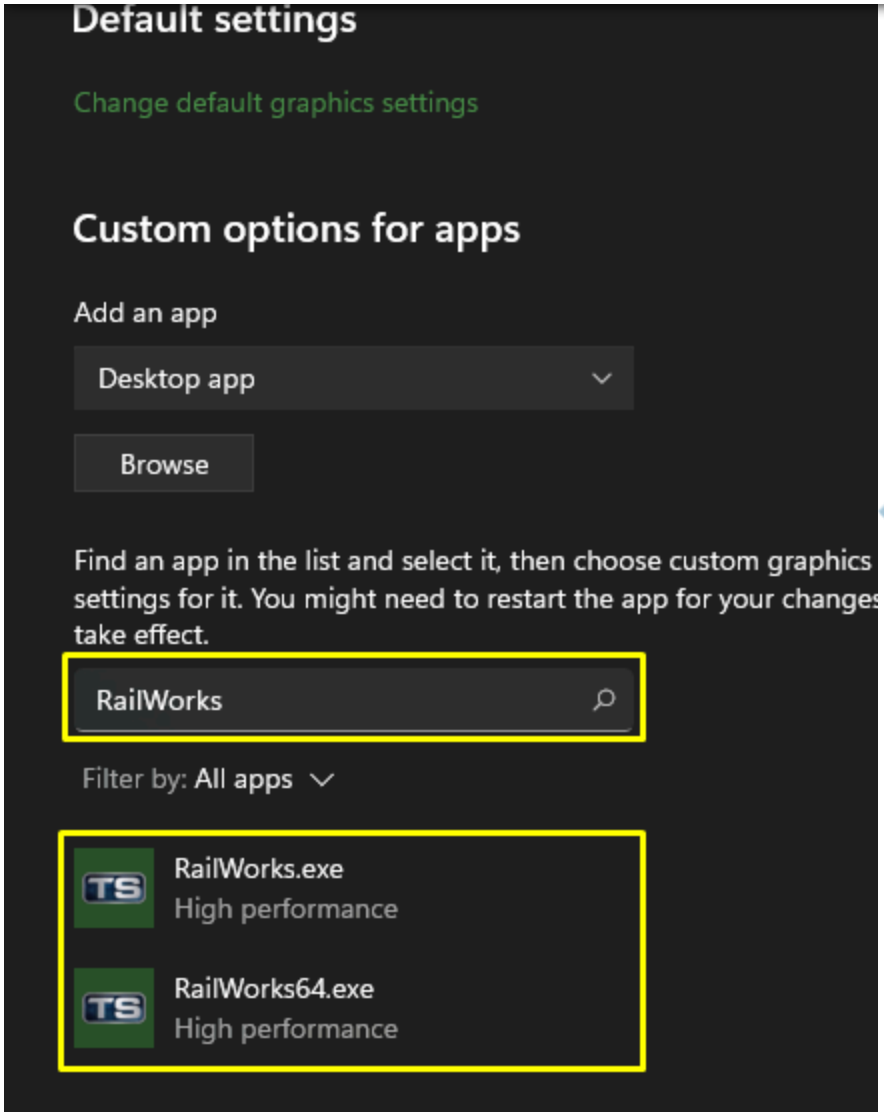
Graphics Card Settings

It is very important to make sure your video card is configured so tl
than using the CPU's integrated graphics card. Otherwise your gam

Here's how. In the Windows settings (might be different or not evei
Windows earlier than Windows 11), Choose System > Display > Gra
following dialogue window. Type RailWorks in the search box and y
64-bit versions of the game.

3 4 2

Award Favorited Share

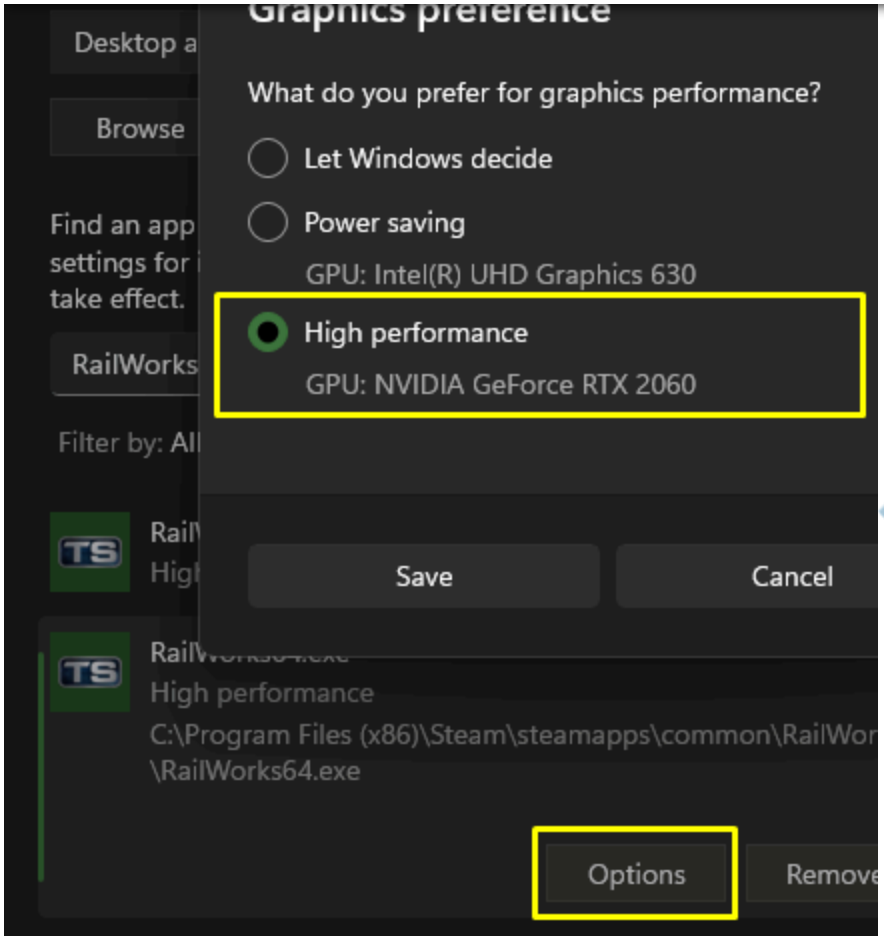


DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

Click on the one you want to check, choose options and then selec

3 4 2

Award Favorited Share



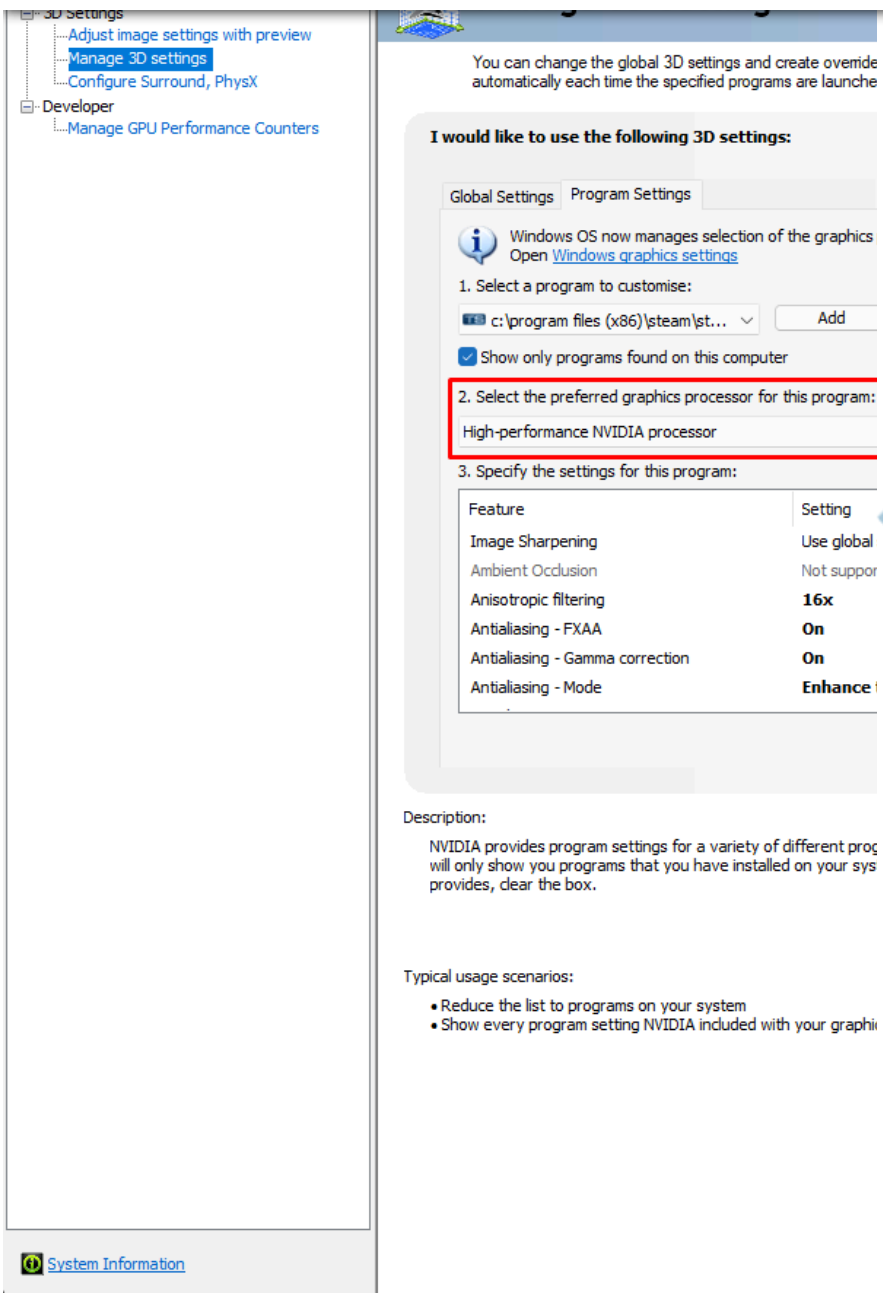
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

Then save and exit.

Also open the control panel of your graphics card and make sure it the game (32-bit and 64-bit).

3 4 2

Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

This ensures that the game will make full use of your video card.

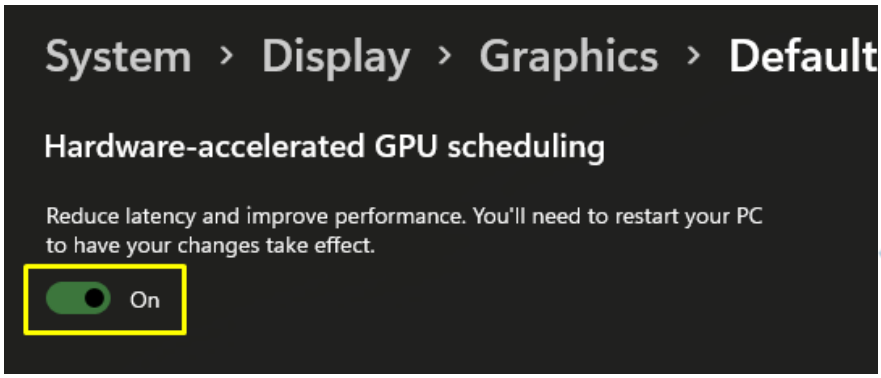
GPU Scheduling

Turn on hardware-accelerated GPU scheduling.

With Windows 10 May 2020 update, Microsoft introduced a new G
but off by default option. With the right hardware and drivers, Winc
GPU scheduling to a dedicated GPU-based scheduling processor.

3 4 2
Award Favorited Share

2. Select System > Display tab.
3. Locate Multiple displays
4. Click on Graphics Settings.
5. Select the Change Default Graphics Settings option.
6. To enable the feature, toggle ON the button next to the Hard scheduling.



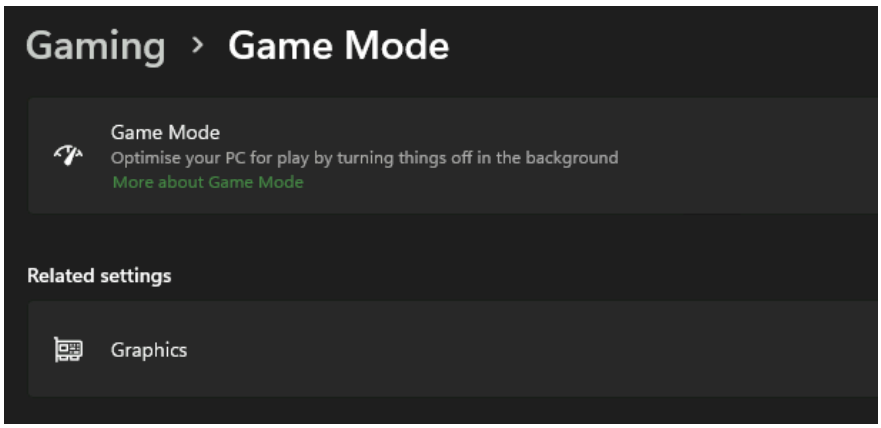
Reboot your Windows device to apply the changes.

Windows Game Mode

Although enabling Game Mode should usually prioritise games and improve performance, many games encounter poorer frame rates, s

In my experience, Train Simulator is one of these games, so I strong Mode off.

Open the Start menu, select Settings, choose Gaming, Game Mode Game Mode OFF.

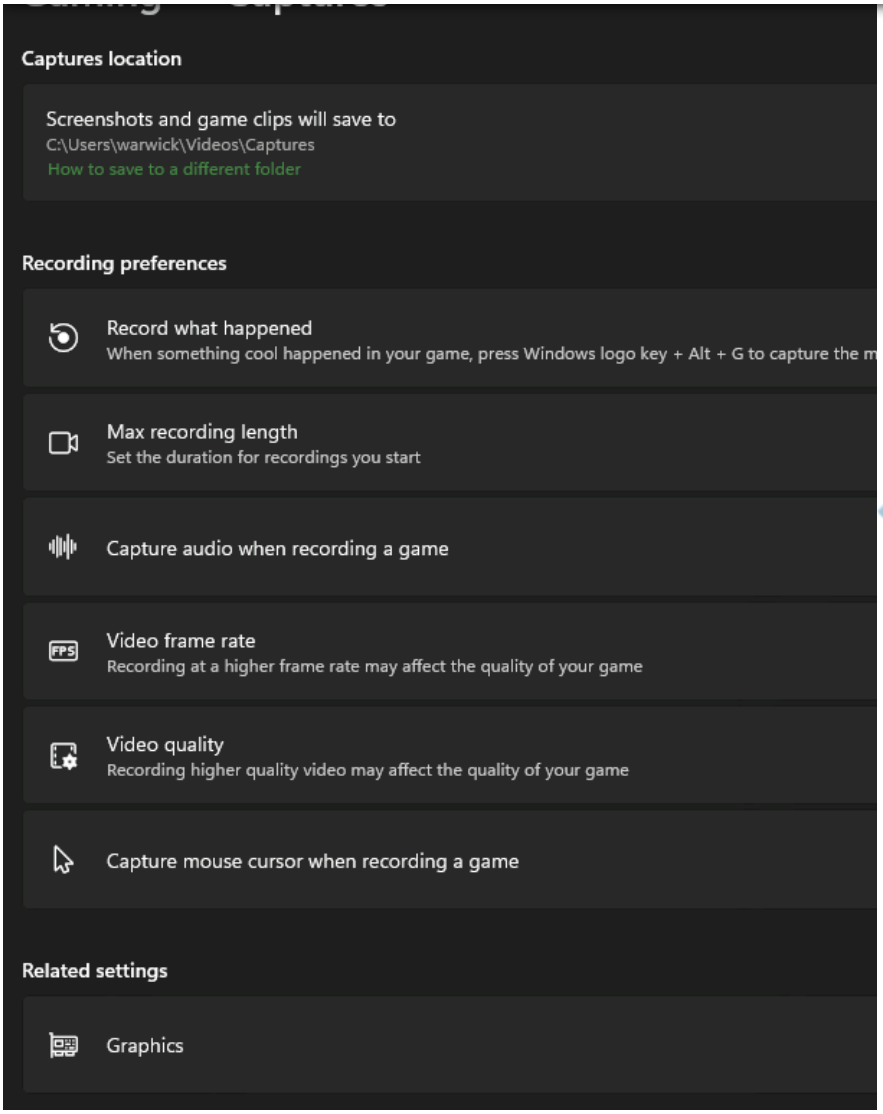


DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

These changes should help to improve performance and result in b
for Train Simulator, and may help prevent the OOM error.

Similar advice for Microsoft Flight Simulator is given at this website

Flight Simulator Blog - Best Graphics Settings Guide [www.flightsimulatc

Run as an Administrator

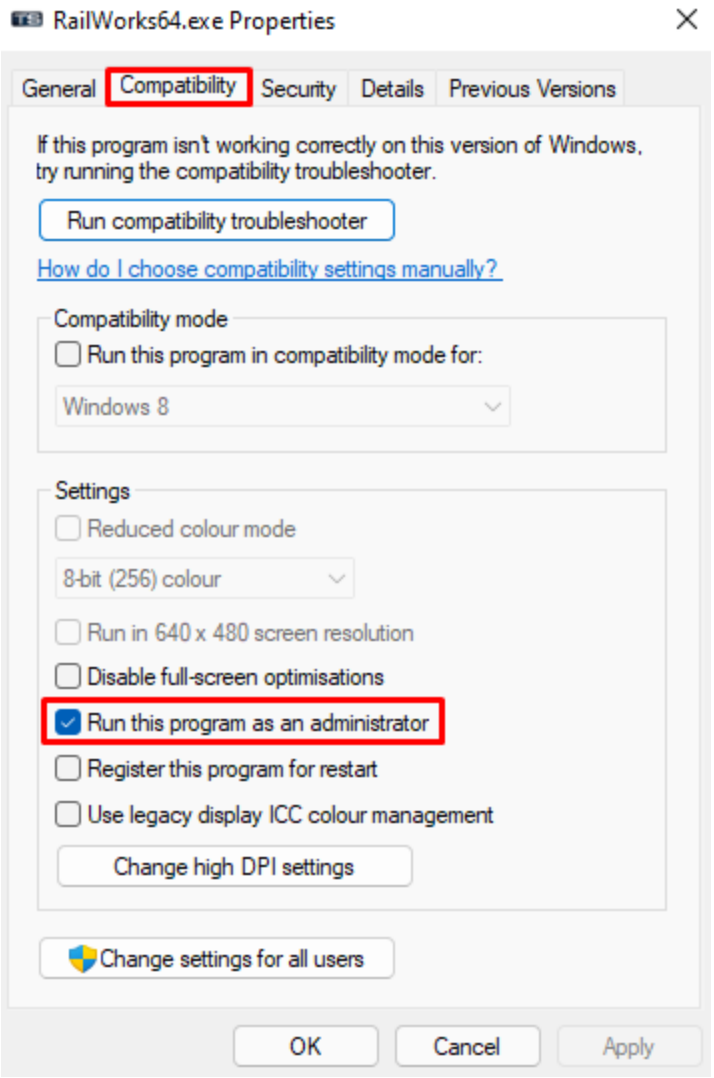
By always running the game as an administrator, you may potential
could impact the game's performance. You might also get a "Please
when launching the game via a desktop shortcut.

3 4 2
Award Favorited Share

RailWorks64.exe

Find them in your RailWorks folder: -
C:\Program Files (x86)\Steam\steamapps\common\RailWorks\

Then right-click on each in turn, select 'Properties' then choose the
a check mark in the 'Run this program as an administrator' box as i



Game Settings

If you haven't done so already, you will want to make some adjustn
get the best out of Train Simulator. It is important to choose setting
of your computer.

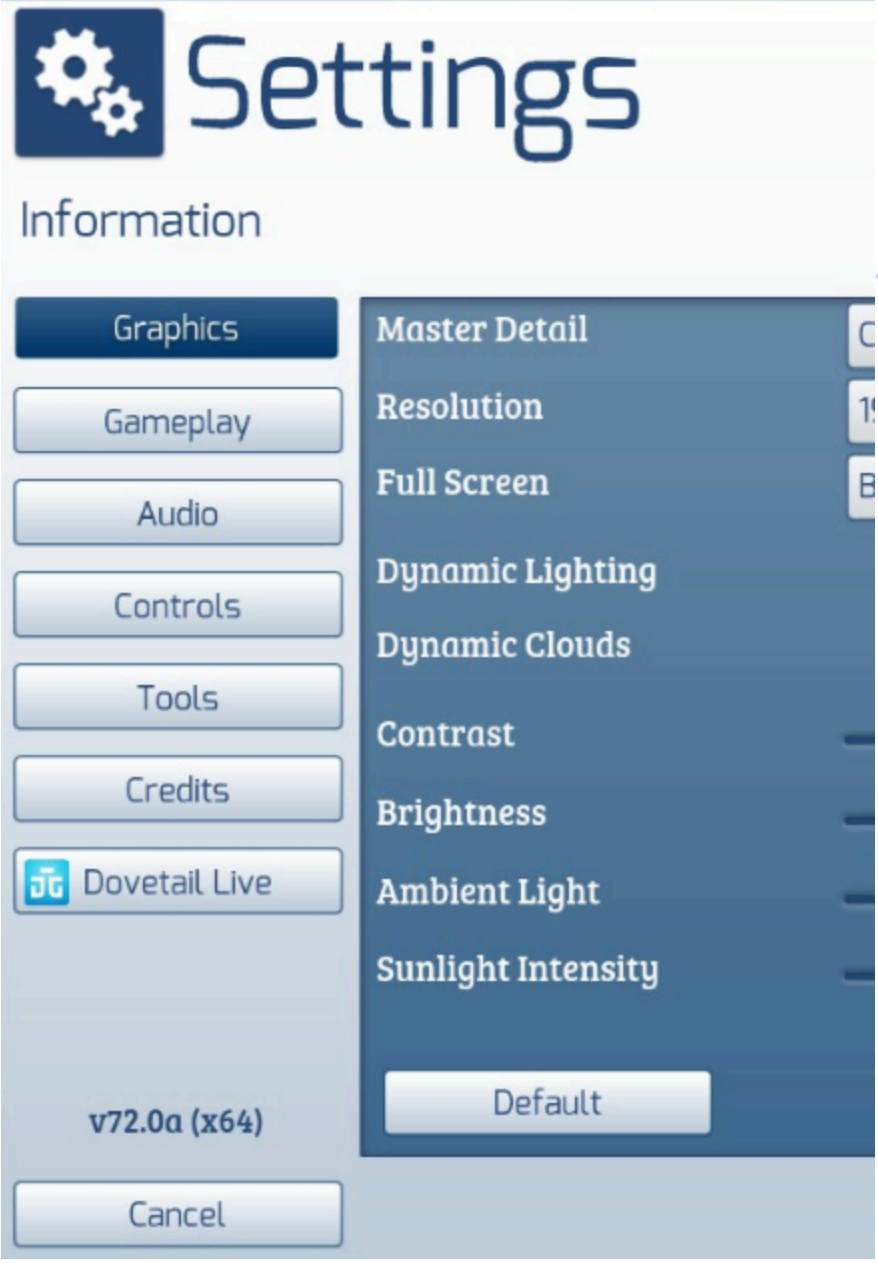
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2

Award Favorited Share

6 physical processors with 32 GB RAM and 1 TB SSD together with
Primary VRAM: 6 GB. Monitor Refresh Rate: 143 Hz. Supported MS/

For me, at least, these give me virtually flawless gameplay, free of a
typical FPS of 70 or more and great looking graphics. I also do exte



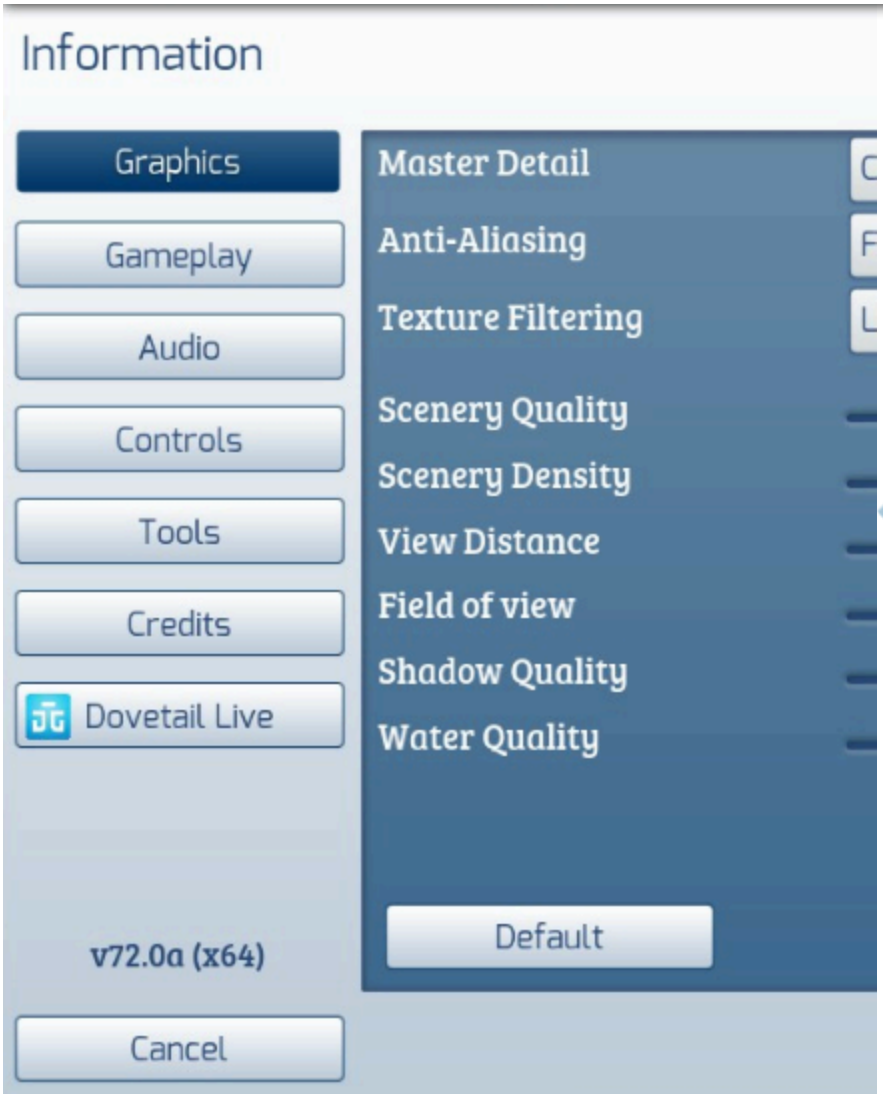
You will note that I have set the resolution to 1920x1080. It should
you should set this number to whatever matches your Windows na
resolution settings. In my case this is 1920x1080. You will have to l
computer's Windows/System/Display settings.

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

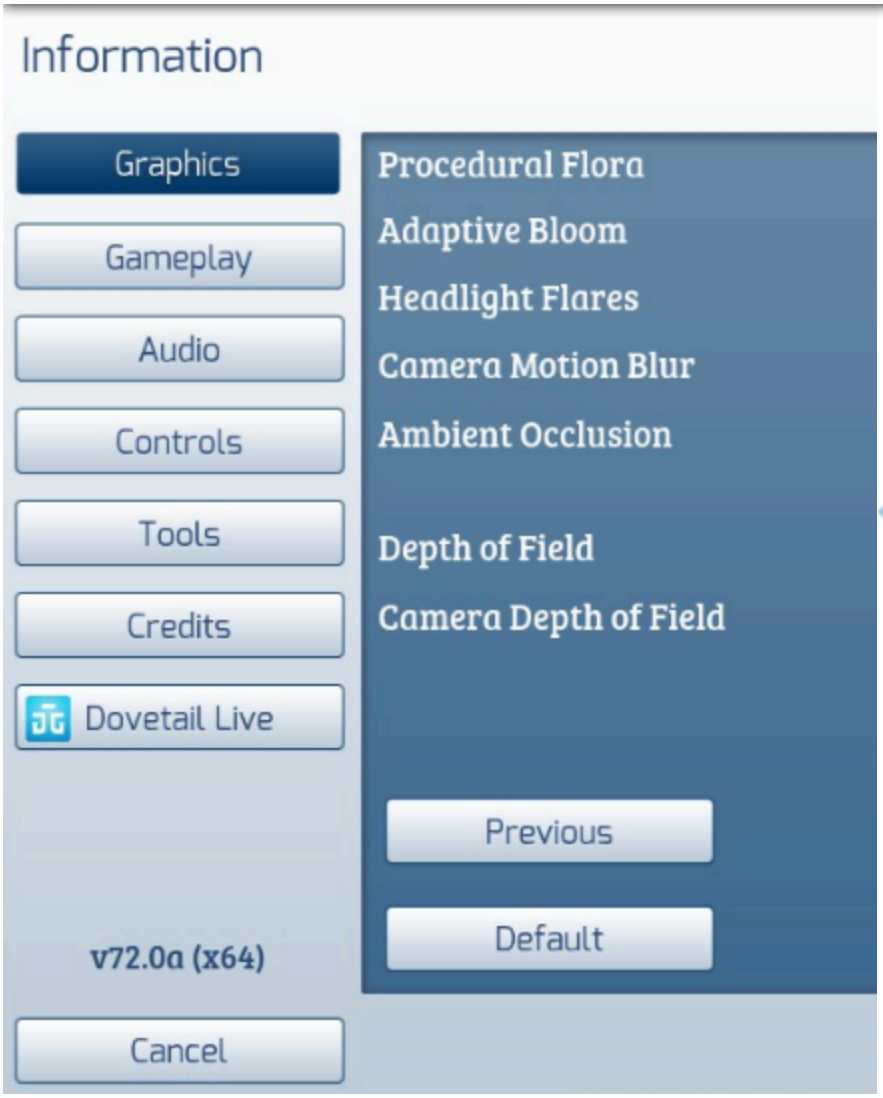
Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2

Award Favorited Share

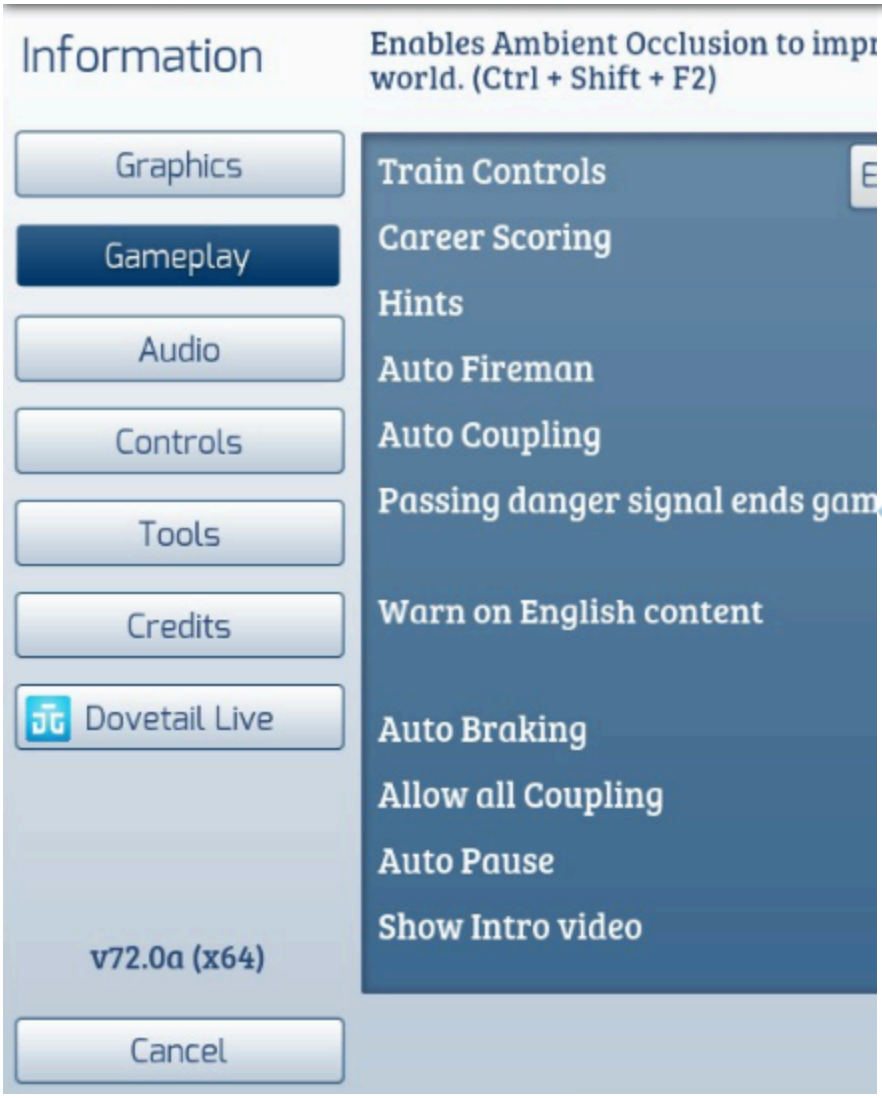


Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

You will want to enter your own settings to suit your needs, so the reference.

Frame Rates (FPS)

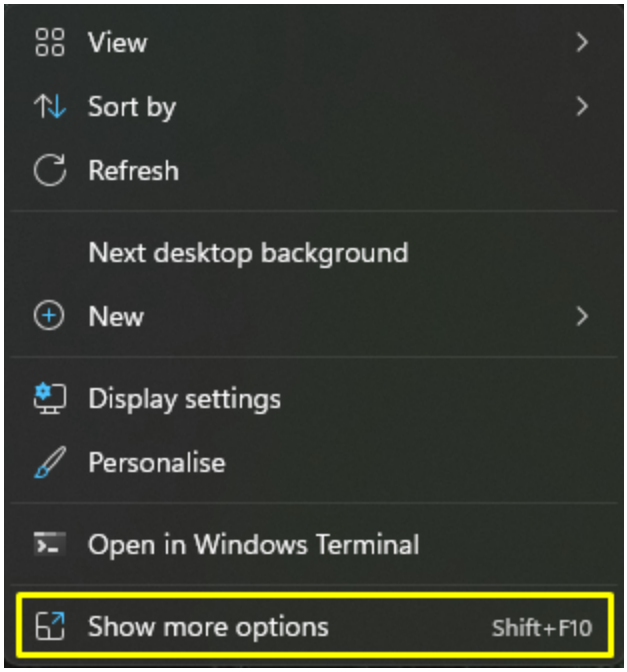
In almost every case, very low FPS (or frame rate) is caused by a GF 'Graphics Processing Unit' and is your computer's high-performanc your GPU's driver has not started correctly - or it has not been con the GPU to run Train Simulator. In both cases, the game will default integrated graphics and result in very low FPS.

In this example (given for reference) we shall assume we are runnin GPU is an NVIDIA GeForce RTX 2060.

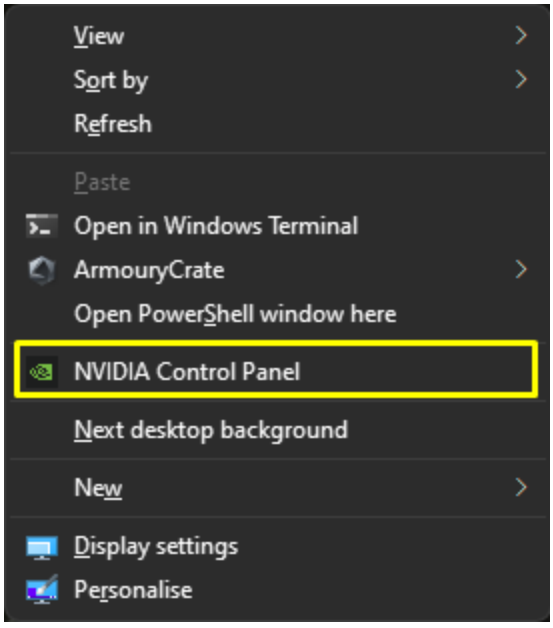
3 4 2

Award Favorited Share

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides



We click the 'show more options' link at the bottom, and the 2nd w
the 'NVIDIA Control Panel' link is visible, which means the video ca
the driver is present.



If, as is sometimes the case, the 'NVIDIA Control Panel' link was not
mean that the video driver had not initialised properly. If so, we wo
computer and start it again from cold. This would usually solve the
check again to see if the 'NVIDIA Control Panel' link was there. If w
would mean we had a video card problem and we would have to re

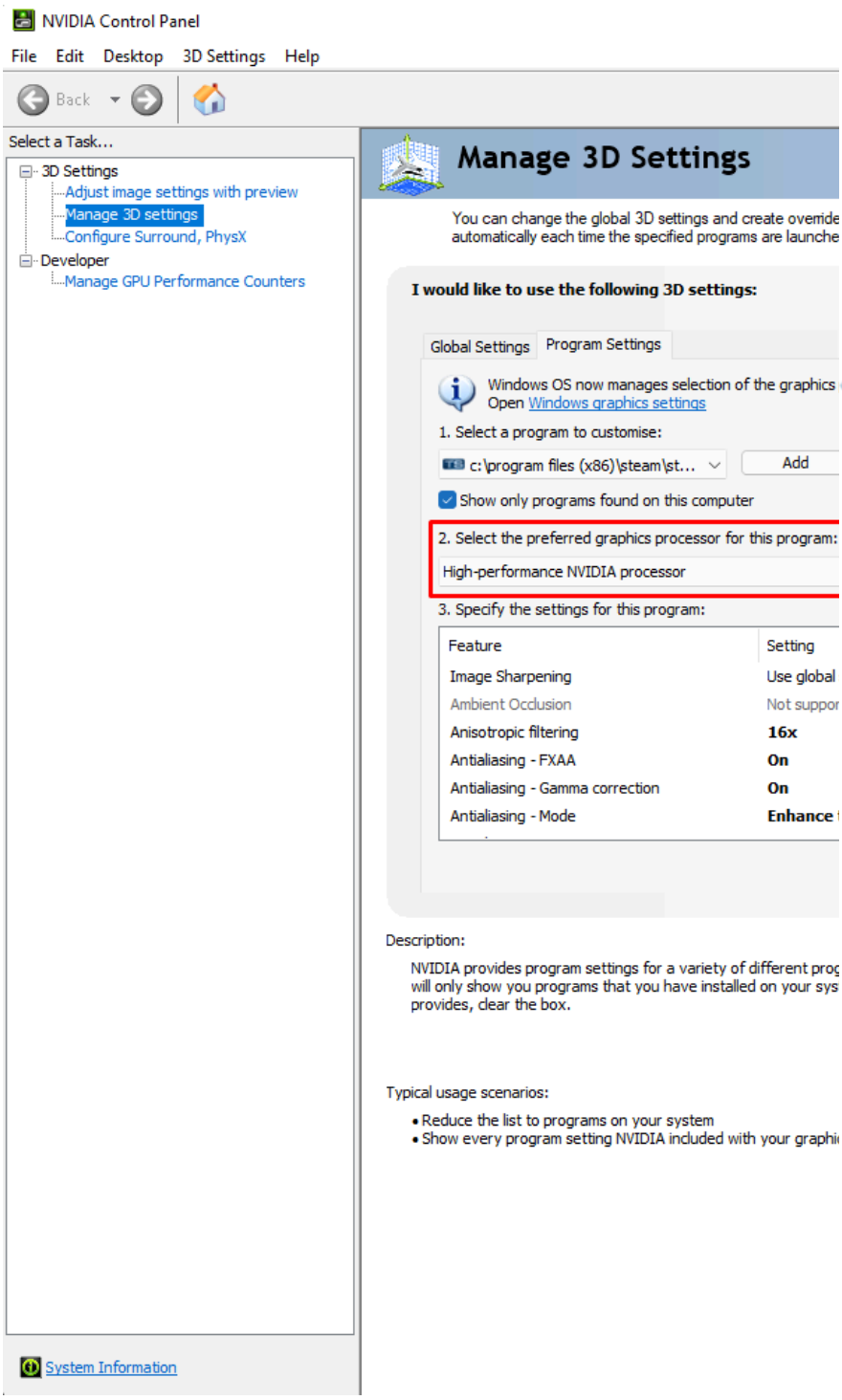
3 4 2

Award Favorited Share

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

We click on the link to the 'NVIDIA Control Panel and should see th



Under the 'Manage 3D Settings' heading, we select the Program Se
edition of Train Simulator to customise in section 1 (either 32-bit o
in section 2 we have selected 'high performance NVIDIA processor.
running the 64-bit edition, we would need to add a new profile for

3 4 2

Award Favorited Share

Here, for reference only, are my settings for the NVIDIA GeForce RT

Feature	Setting
Image Sharpening	Use global setting (On)
Ambient Occlusion	Not supported for this application
Anisotropic filtering	**16x**
Antialiasing - FXAA	**On**
Antialiasing - Gamma correction	**On**
Antialiasing - Mode	**Enhance the application setting**
Antialiasing - Setting	**8x**
Antialiasing - Transparency	**Off**
Background Application Max Frame Rate	Use global setting (Off)
CUDA - GPUs	Use global setting (All)
Low Latency Mode	Use global setting (Off)
Max Frame Rate	142 FPS
Multi-Frame Sampled AA (MFAA)	**On**
OpenGL rendering GPU	Use global setting (Auto-select)
Power management mode	**Prefer maximum performance**
Texture filtering - Anisotropic sample opti...	**Off**
Texture filtering - Negative LOD bias	**Allow**
Texture filtering - Quality	**Quality**
Texture filtering - Trilinear optimisation	**On**
Threaded optimisation	**On**
Triple buffering	Use global setting (Off)
Vertical sync	Use global setting (On)
Virtual Reality pre-rendered frames	Use global setting (1)
Virtual Reality – Variable Rate Super Samp...	Not supported for this application

We save any changes we have made before exiting the NVIDIA Cor

**** Please note: All the above instructions have been given as an Windows 11 using an NVIDIA GeForce RTX 2060 GPU. If yours is di Windows is different, the procedure will also be different. But the p make sure the video card is installed and running, and make sure it game uses it rather than using the CPU's integrated graphics card.

Run the game and check the FPS levels in-game. Your PFS levels sh

AMD Radeon Graphics Settings

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2
Award Favorited Share

Go to the AMD Adrenalin settings interface and click on the 'Gamin so you can adjust the graphics 'just for that game', always rememb under the 'Global Settings' section for Display and Graphics, unless apply to all your games and applications at once.

- *Set Radeon Anti-Lag to Enabled.*
- *Set Radeon Image-Sharpening to Enabled (don't adjust sharpe*
- *Set Radeon Enhanced-Sync to Enabled.*

Now click on the 'Advanced' tab below above settings.
Leave 'everything' here 'off' to use default settings as already set in
We want TSC itself 'within its own' graphics 'Settings' section to cor

Next. Exit the AMD interface and start up TSC.

Once TSC has loaded up, go to the TSC 'Settings' tab.

- *Under the Screen Resolution options, make sure 1920x1080p Monitor (if a 1080p Monitor you are using).*
- *Under the AA section, select a medium range AA option first (t display quality). You will need to try each setting to a point wh performance frame-rates meets your acceptance.*

When happy, 'Save' your 'Settings'.

Next. All other settings test and adjust to your liking but make sure max to avoid missing graphic detail in game.

- *Don't forget to 'Save' changes you make in the TSC 'Settings' se*
- *Don't alter anything at all in the AMD Adrenalin TSC game pro changes to the TSC Settings section, or you will be back to squ TSC's control of the graphics (we want TSC to have 'full contro*

Out of Memory

Are you constantly getting the 'Out of Memory' error?

Please refer to our other guide which explains how to resolve this is

Fixing the Out of Memory Error
A Guide for Train Simulator Classic 2024

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2
Award Favorited Share

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

Click here to open the above guide in a new window

Safe Mode

If you cannot launch the game normally anymore, try using safe m

We assume for this section that you previously had the game worki changes to the in-game settings which have messed things up. Nov probably the graphics settings causing the problem.

The problem is, how do you change return the graphics settings to even get as far as the main in-game menu?

Try this.

The -safe launch option will cause the game to launch with minima mode and with a 640 x 480 resolution. This can be helpful for solvi problems.

- Open Steam
- Go to the "Library"
- Right-click the game which needs to be reconfigured
- Select "Properties..." from the menu
- Go to the section "Launch Options"
- Remove any launch options currently shown in the input box (r
- Type -safe in the box.

Hopefully, you will now be able to start the game. If so, set the grap settings and exit the game.

Now remove the -safe parameter from the launch options and resta You should now be able to make any necessary adjustments to the

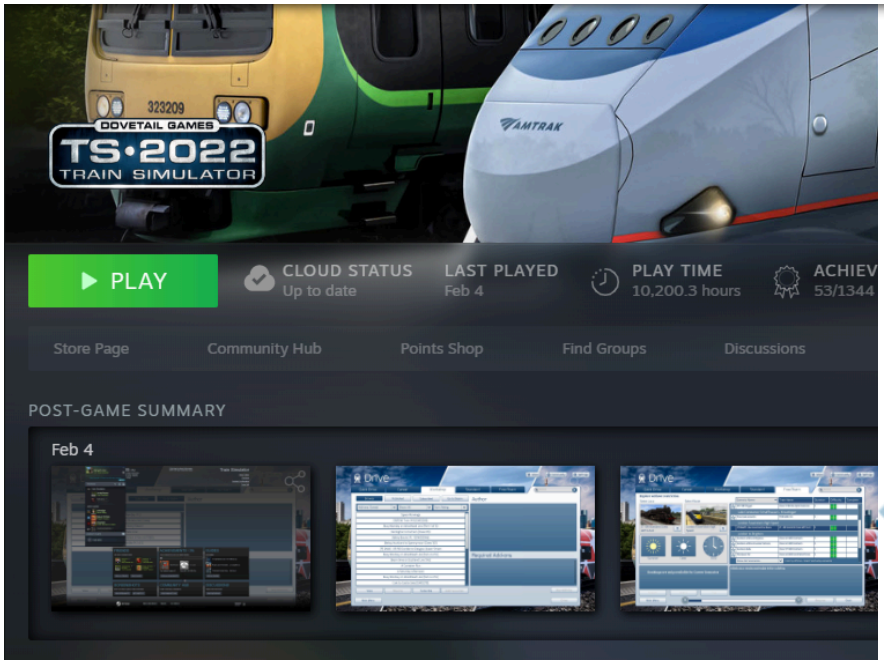
Launching from Steam

When you purchase Train Simulator through Steam, the game will a to your computer and will be accessible via the Steam Interface. Ov you have both the 32-bit and the 64-bit editions of Train Simulator been automatically installed to your system, ready to use.

Launch Steam and choose the Library tab. Scroll down and select "

3 4 2

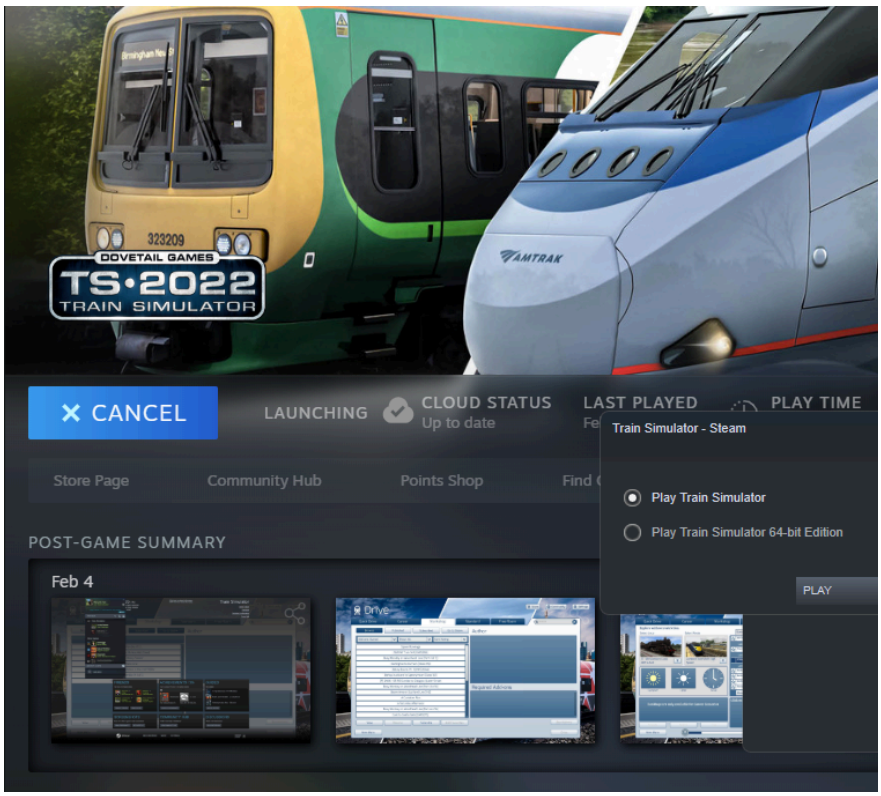
Award Favorited Share



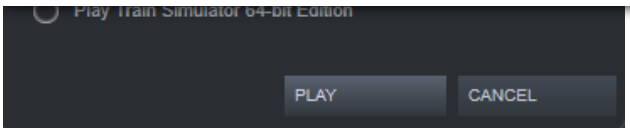
Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

Then click the "Play" button. This will open up the "Play Train Simul



3 4 2
Award Favorited Share



You have 2 choices.

The first (default) radio button launches the 32-bit edition of the g

The second radio button launches the 64-bit edition of the game.

Then click "Play."

If you are running Windows 10/11 you will probably then see anoth
you want to allow this app from an unknown publisher to make cha

Underneath will be the name of the app - either RailWorks.exe or R
which one you have chosen to launch.

Click "Yes" and the game will start to load.

Using 64-bit by Default

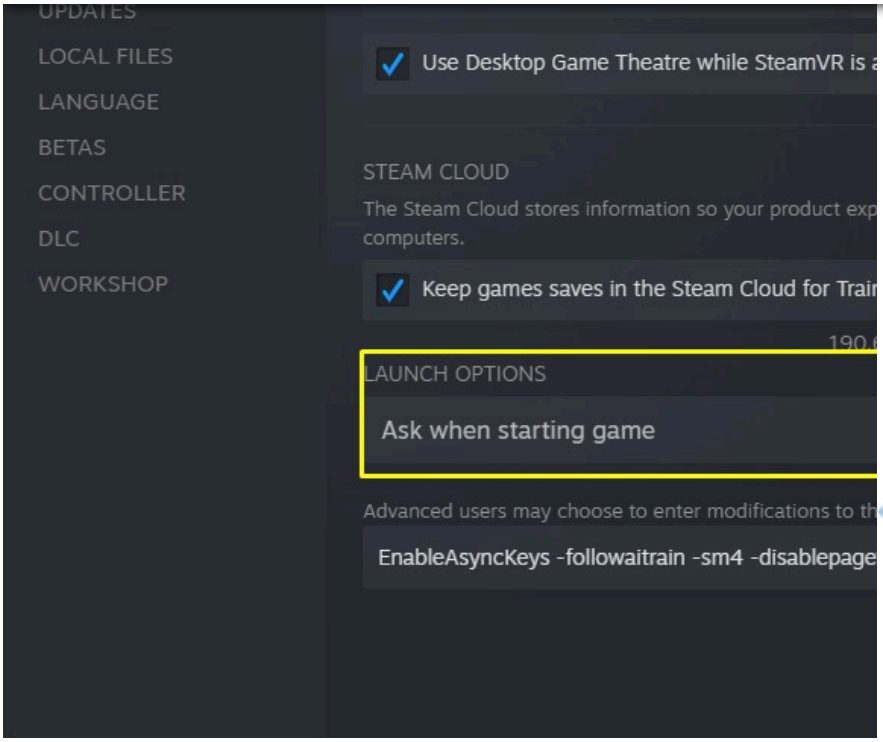
If you always want to automatically start in 64-bit mode, without s
dialogue box, you can choose to do so by changing the Launch Op
setting.

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

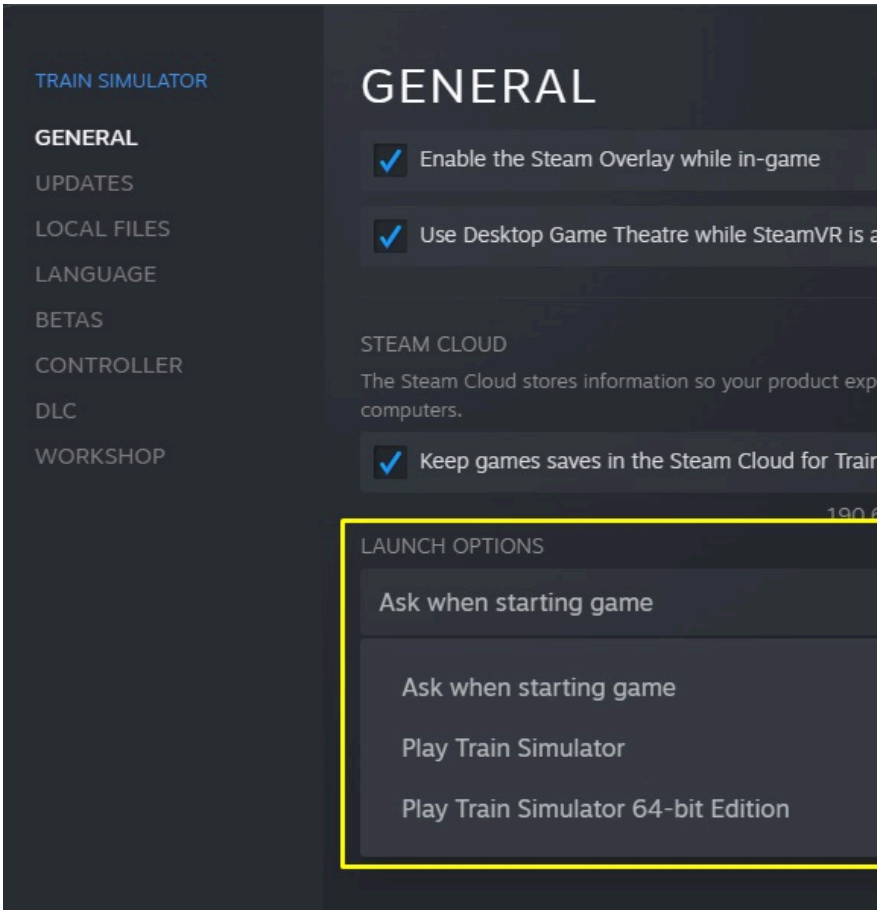
3 4 2

Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

Click on the dropdown selector and choose your startup mode.



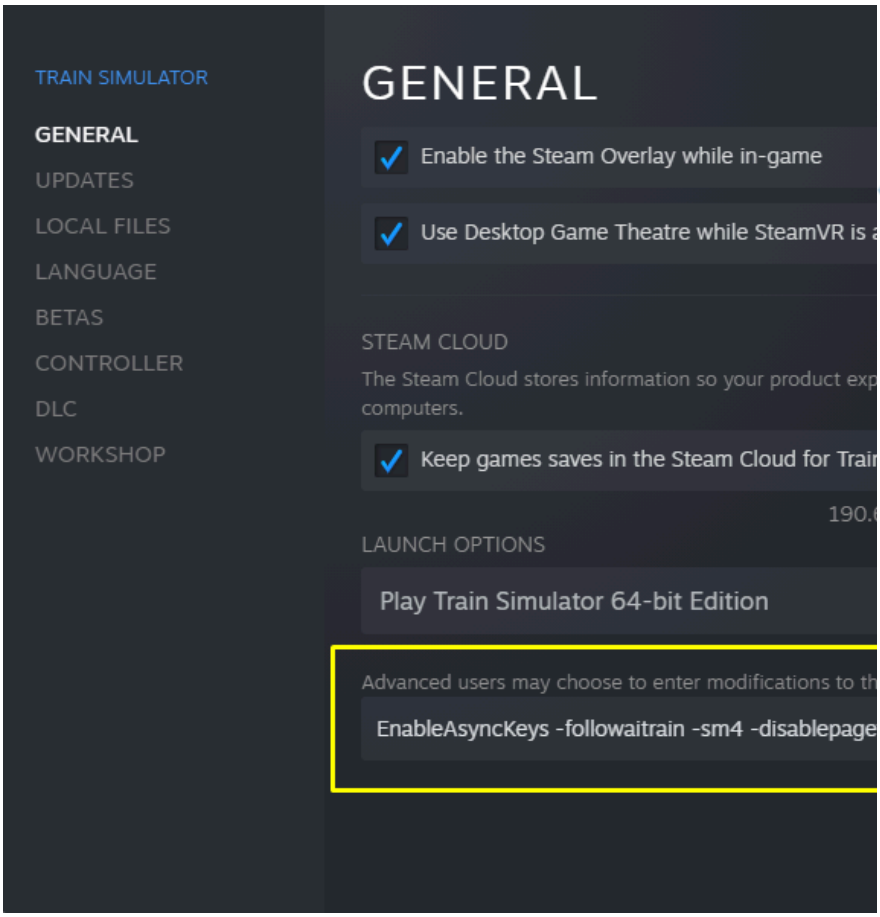
3 4 2

Award Favorited Share

These are passed through in the form of text codes placed in the 'la

To add options, open Steam, go to the Library, right-click on Train S
'Properties.'

The following dialogue window should appear. in the 'Local Files' se
parameters in the box provided.



Normally these parameters start with a single hyphen '-' immediate
individual parameter is separated by a space, as in the example.

in the above example there are 3 parameters being passed.

Parameter	Purpose
--enable-backups	For route-building (note the double-hyphen)
-nojoy	I have no joystick, so avoids unnecessary resources
-refresh 144	Matches my computer monitor

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2

Award Favorited Share

You may not wish to use any of the above parameters - and they ar

There are many other codes you can use. Here's a list. Exercise cau

Command Line Options [sites.google.com]

Launching from Desktop

Many people choose to launch the game directly from the desktop, saves some system memory which would otherwise be used by the

To do this you will need to create a Train Simulator shortcut and pla you need to do is to double-click on it to launch the simulation.

Create the shortcut by finding the game executable file

You will find the file in the RailWorks folder. On your system you ca

C:\Program Files (x86)\Steam\steamapps\common\RailWorks\

Find the edition you want to run (RailWorks.exe for the 32-bit editi 64-bit edition)

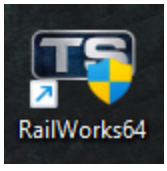
Then right click on the file and select "Create shortcut."

The file will appear in the RailWorks folder and will be named eithe "RailWorks64.exe - Shortcut" depending on which edition you have

If you haven't already set the game executable file to 'Run this prog the section of this guide on how to do this) then you will need to a shortcut properties - otherwise you might get a "Please Login to St

To set the shortcut's properties, select the compatibility tab and tic administrator' checkbox.

Then move the new shortcut file onto the desktop, and you are dor



Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share

Desktop Options

There are many options you can choose when you launch the game shortcut. These are passed through in the form of text codes placed 'Shortcut > Target' box. Here is an example of how they should be a

"C:\Program Files (x86)\Steam\steamapps\common\RailWorks\RailW backups -nojoy -refresh 144

Note that the executable address must be placed entirely inside the parameters are added after this (outside the commas), each startin space.

To add options, right-click on the Train Simulator shortcut and choo

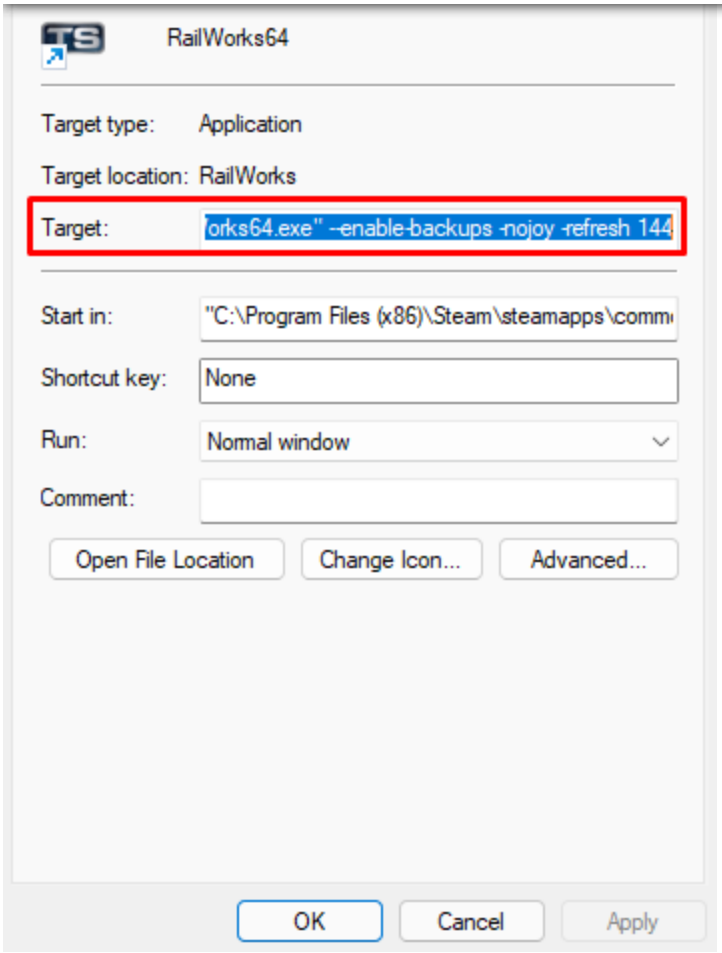
The following dialogue window should appear. in the 'Shortcut' sect 'Target' and enter your launch parameters in the manner described

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

As stated previously in this guide, these parameters usually start wi
immediately followed by the code. Each individual parameter is sep
example.

in the above example there are 3 parameters being passed.

Parameter	Purpose
--enable-backups	For route-building (note the double-hyphen)
-nojoy	I have no joystick, so avoids unnecessary resources
-refresh 144	Matches my computer monitor

In the above example I entered -refresh 144, but you can change th
monitor you have (could be -refresh 175 for a 175Hz monitor, or -re
monitor).

You may not wish to use any of the above parameters - and they ar

3 4 2

Award Favorited Share

Command Line Codes

Compiled by Peter Hayes, with contributions from Warwick Rail, Bo
Wolf, and Cardinal 51.

From Peter Hayes

-allowJump (allows jumping AI trains in scenarios)
-blocking
-BlockingPhysics
-ConvertDistanceData
-DisableAWS
-DisableDump
-DisableEAX
-DisableSignals
-DisableSound
-DisplayLocMe
-DontBakeDistances
-DontUseBlueprintCache (possibly rebuilds blueprint .pak's each tin
EnableAsyncKeys (NB: No '-' required)
--enable-backups (needs double hyphen)
-EnableEAX
-EnableFullEditor
-enable-perforce
-EnableSound
-EnableSoundDebugDialogs
-EndTrackCheck
-FilterForDirectionality
-FilterForManualJcts
-FlashStrings
-followaitrain (used scenario testing. CTRL+Click any train to follow
switching of trains in Free Roam. Use external view then press PgU
-ForceSWMix (should disable anything more than basic playback th
-force-d3d9 (vertex buffer fix?)
-FPSLimit=xx (sets the frame rate limit to a defined figure)
-fs (smaller fonts - narrative text and menus)
-generateDetailLevels
-IgnoreCoupling
-ignoreTrackTypes
-Language
-LeipzigDemo
-ManualCoupling
-NASKU

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2
Award Favorited Share

-NoWagonBraking
-nvperfhud (create NVIDIA performance HUD (not confirmed))
-oogbb_noh ????
-QuickStartSteam
-relaunchmce
-SaveDistances
-SetDefaultButtonSound
-Show3DPaths
-ShowAudioConsists
-ShowControlStateDialog (Expanded HUD)
-ShowDestinationMarkerList
-ShowDriverList (adds a 'Driver' button inside the Driver Properties
-ShowSoundDeviceSelector (allows choice of system sound device)
-ShowTrackLinks
-SkipIntros
-TakeADump
-TrackPatternEntityFixup
-updateRVNumbers
-UseFastBlueprintCache
-UseFastStreamCache
-UseSoundDevice
-UseStreamCache
-VerboseAudioDebug

From Warwick Rail

-nojoy (disables joystick support)
-refresh xxx (sets refresh rate to a defined figure)

From Bob Artim

-LogLocStrings
-LogMate
-lua-debug-messages
-ResetAchievements
-ResetStats
-SetFOV
-SetLogFilters
-ValidateNetwork
-ValidateSignals

From Dr Magnum Wolf

-AutoTest
-AutoTestCamera

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2
Award Favorited Share

-DLCLiveURL
-EnableDistCull
-ForcedDump
-MaxiDump
-MLAA
-MultiCore
-NoAStar
-NoClearType
-OculusRift
-OculusTest
-PhysXDebug (needs to connect to PhysX debugger to work)
-QuickDriveDebug
-RemoveLogFilters
-RevertHUD
-SafeMode
-ScaleformDebug
-ShowPassengerState
-TrackIRHorizontal
-TrackIRView
-updateRVNumbers

From Cardinal 51

-cpuCount=x
-exThreads=x
-maxMem=xxxxx
-maxVram=xxxxx

32-bit and 64-bit

When you purchase the game, you get both the 32-bit and 64-bit
Both are installed, and you have the option of running either of the

Depending on your system's specifications, you may wish to use th
the 64-bit edition - or vice versa. Route builders sometimes find th
certain situations involving linear object editing. For general gamep
preferred by most.

Here are the system requirements for each edition.

32-bit Edition

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



Recommended for 32-bit:
Operating System: 32- or 64-bit Windows 7 Service Pack 1, 8.1 or 1
versions and types are not supported)
Processor: Intel Core-i5 4690 3.50 GHz Quad Core or AMD Ryzen 7
Better
Memory: 4 GB RAM (maximum possible under 32-bit Windows)/16
Windows)
Graphics: NVIDIA GeForce GTX 970 or AMD Radeon RX 480 with 4
DirectX: Version 9.0c
Network: Broadband Internet Connection Required (May incur addi
Storage: High Performance SSD Recommended with 20 GB or more
Add-Ons will require more)
Sound Card: DirectX Compatible Audio Device
Additional Notes: Requires mouse and keyboard or Xbox Controller

64-bit Edition



Recommended for 64-bit:
Operating System: 64-bit Edition of Windows 7 Service Pack 1, 8.1
versions and types are not supported)
Processor: Intel Core-i5 4690 3.50 GHz Quad Core or AMD Ryzen 7
Better
Memory: 16 GB RAM or Better
Graphics: NVIDIA GeForce GTX 970 or AMD Radeon RX 480 with 4
DirectX: Version 9.0c
Network: Broadband Internet Connection Required (May incur addi
Storage: High Performance SSD Recommended with 20 GB or more
Add-Ons will require more)
Sound Card: DirectX Compatible Audio Device
Additional Notes: Requires mouse and keyboard or Xbox Controller

Laptop, Notebook, Mobile or Low Power versions of the above spec
Integrated Graphics) may work but are not supported. Updates to C
Device Drivers may be required.

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2
Award Favorited Share

edition of the game.

While this may be adequate for some users, more serious gamers w
slightly more powerful.

Here is a typical configuration for those who wish to experience a s
realistic performance.

Operating System: 64-bit Edition of Windows 11
Processor: Intel(R) Core(TM) i7-9750H CPU @ 2.60GHz 12 logical p
processors
Memory: 32 GB RAM
Graphics: NVIDIA GeForce RTX 2060 with 6 GB Dedicated VRAM
DirectX: Version 9.0c
Monitor Refresh Rate: 143 Hz
Network: Broadband Internet Connection 100 Mbps
Storage: High Performance SSD Recommended with 1 TB available
Sound Card: Speakers (Realtek(R) Audio)

----- GAMEPLAY -----

The Main Menu

After the game has finished loading you will see a main menu scree
like this.

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

If this is your first time to play the simulation, you will probably wis
"Academy" button. If you are already familiar with the basic control
then you may wish to choose the "Drive" button instead.

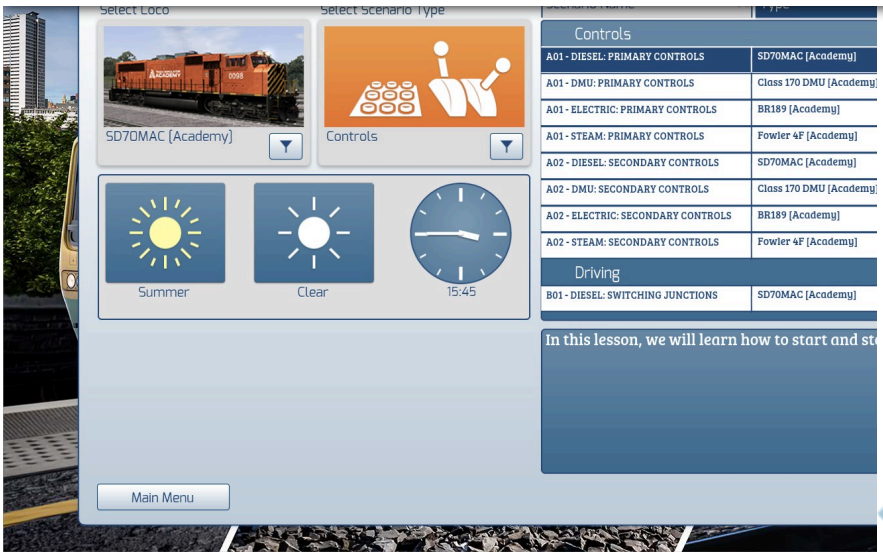
The Academy

If you are new to Train Simulator, the Academy is a great place to s
pick up the basics of driving different types of trains under a range
to learn how to carry out various tasks - such as picking up and drc
changing points (switches in USA terminology), shunting, etc.

Academy tab

Learning the Ropes..

3 4 2
Award Favorited Share



In the above menu, you can select a basic task to learn - and the lis
loco or type of task. In each lesson, there are helpful on-screen inst
how everything works.

Tutorial tab

Getting started.



The above menu contains a list of tutorials for you to complete. The
various locos and routes and are generally slightly longer and more
contained under the basic Academy tab. Again, there are helpful in
you every step of the way.

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2
Award Favorited Share

Have fun!

The Drive Menu

After you open the Drive Menu, you will have several choices in fro

- Quick Drive
- Career
- Workshop
- Standard
- Free Roam

Quick Drive

A Quick Drive scenario will allow you to drive any of the trains you have (both Official and Workshop) provided the destinations indica using the power mode of the locomotive selected. An electrically-p to drive on track which is unsuitable (no electric power). After you you choose the 'Depart' point and the 'Destination' point.



Career

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share

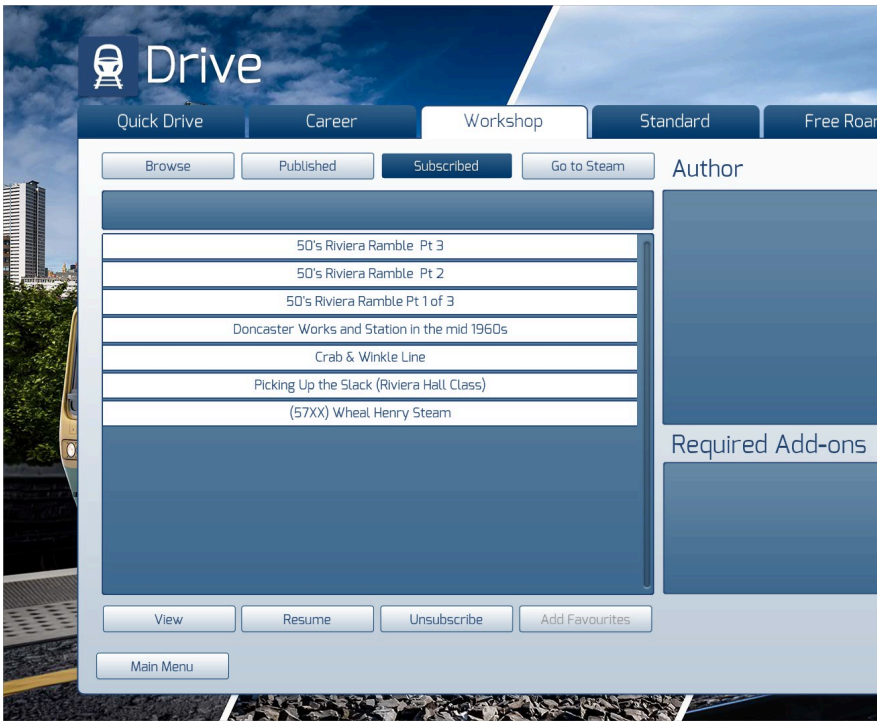


DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

Workshop

Although it is possible to select and drive workshop scenarios from against attempting to do so. There are a number of technical limita them from the Standard tab instead. The Workshop tab should mai which workshop scenarios you have already subscribed to.

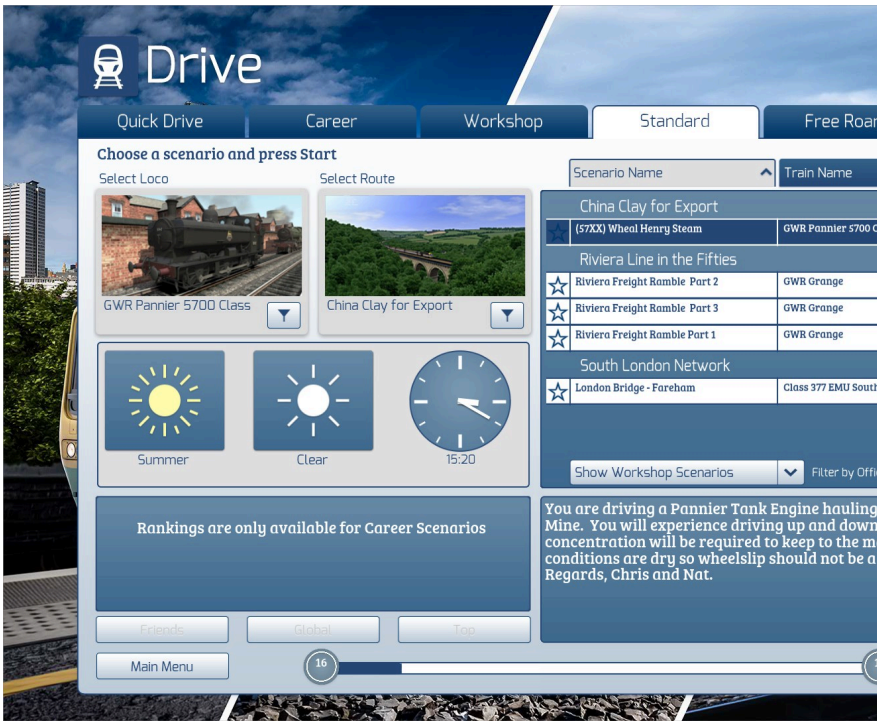


3 4 2
Award Favorited Share

well as any standard scenarios provided by the official route develc
and the outcome of the scenario is confined to either success or fa
popular for most players.



If you wish you can use the filter to show only workshop scenarios.

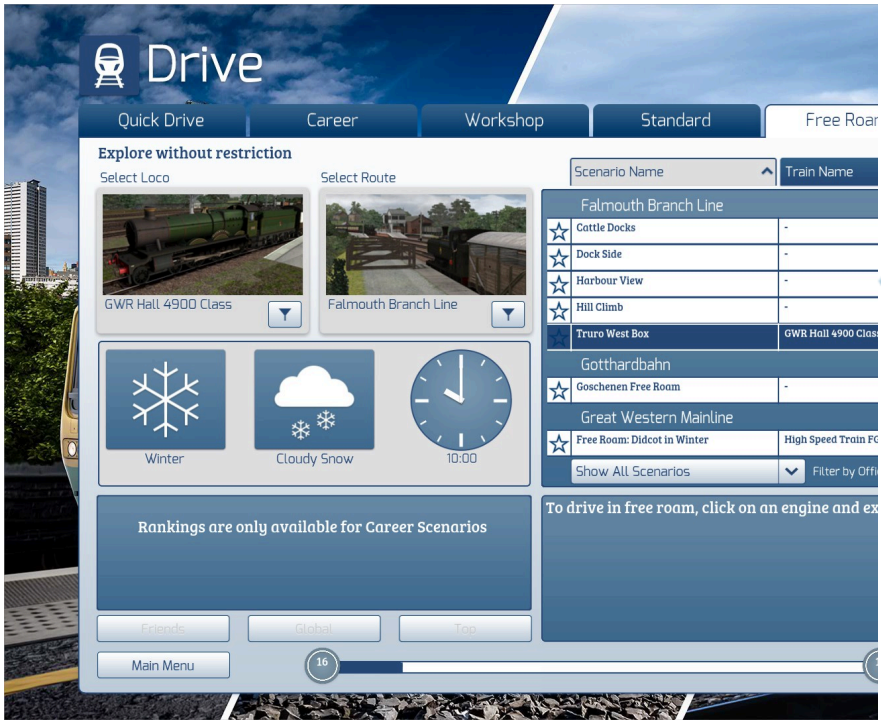


DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2
Award Favorited Share

it. You will then be able to drive it anywhere you wish on the route without any scoring to consider. You are also able to switch locos a on a different one. You are responsible for ensuring that the points are set correctly for the path you choose to follow, and you can cha via the 2D map (press number 9).



The Profile Menu

The Profile Menu is a way of checking on your status, progress in th locos, routes and marketplace items you may have acquired via Ste launch Career scenarios from it for you routes and locos.

Profile tab

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

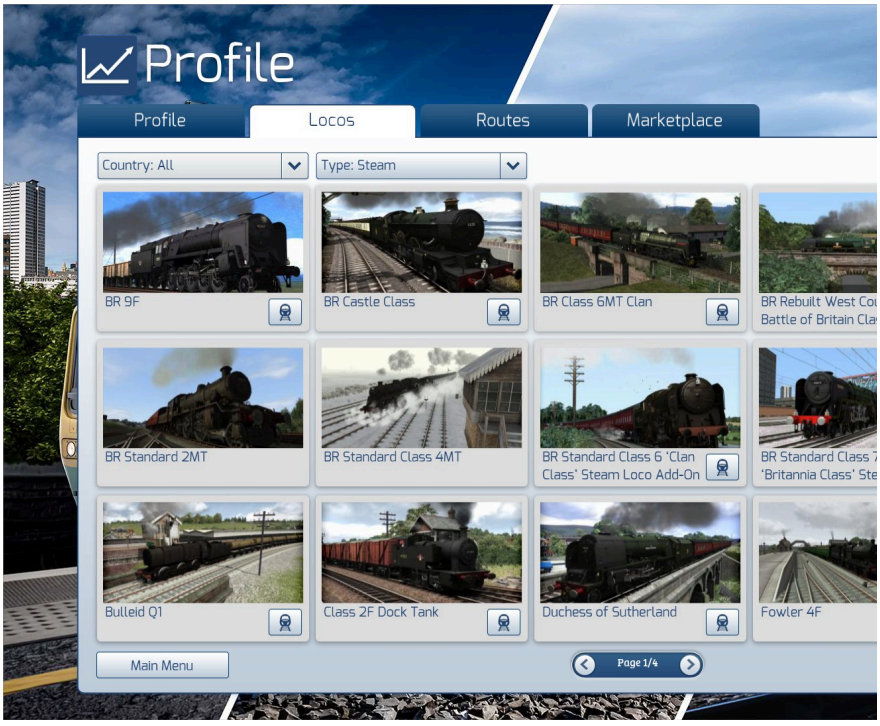
Award Favorited Share



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

The above menu shows various statistics for gameplay, as well as y
really do anything from this tab, apart from changing the name sho
official username, but it is okay as a reference.

Locos tab



The above menu lists which locos you have. You can filter them acc
power. Most (but not all) loco images have a small train icon to the

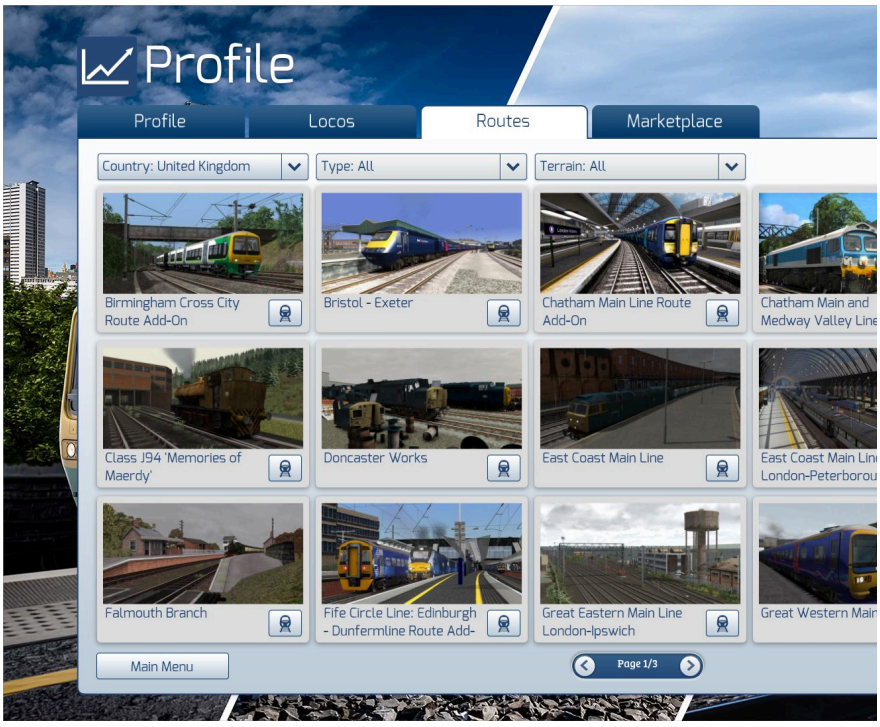
3 4 2

Award Favorited Share

will be ready for you to run. Clicking on the Loco image itself, on th
Loco Details window, from which you can read various information
Drive scenarios.



Routes tab



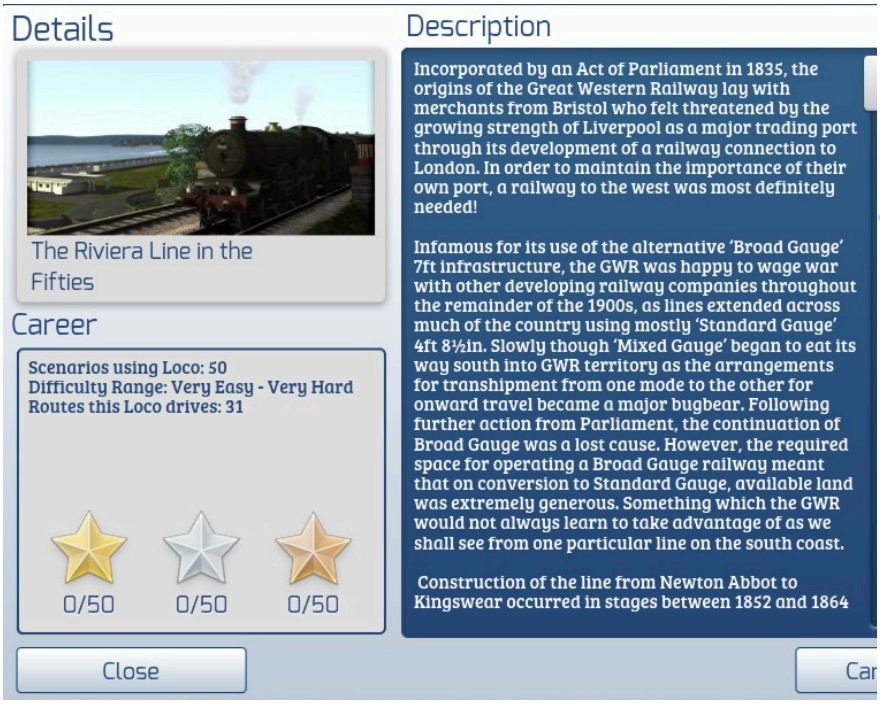
Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2

Award Favorited Share

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

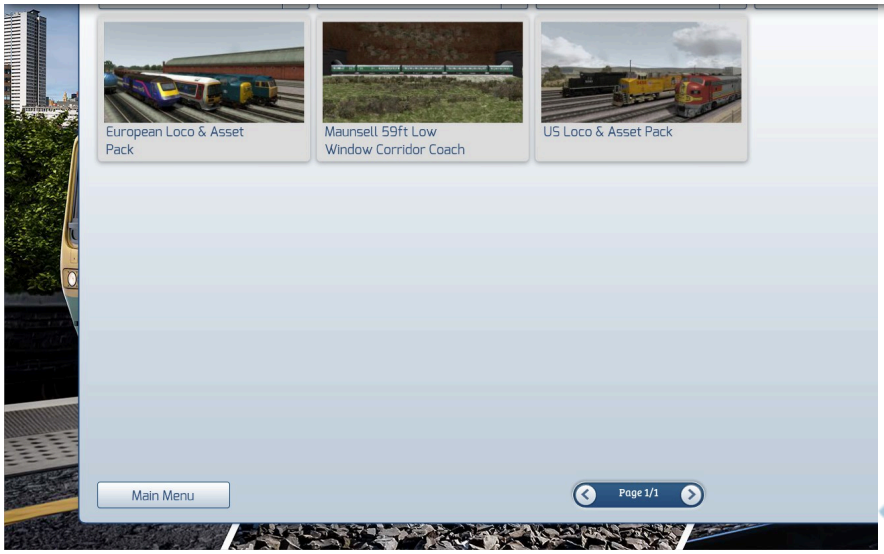
Clicking on this will take you to another screen where a career scer will be ready for you to run. Clicking on the Route image itself, on t the Route Details window, from which you can read various informa Career and Quick Drive scenarios.



Marketplace tab

3 4 2

Award Favorited Share



Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

The above menu lists which marketplace items you have. This is a v
whether you already have the European Loco and Assets Pack or th
both, as well as any other odd items. Apart from that, it has no oth

Workshop Scenarios

To play a Workshop scenario, you will first need to subscribe to it. I
the scenario's Workshop page. When you subscribe, the scenario w
download and install to your computer. You will then be able to che
clicking the in-game 'Workshop' tab on the Drive Menu and selecti
underneath.

The best way to find scenarios for the routes you own is to use the
at railsims.com by Warwick Rail.

TS Routes & Scenarios [www.railsims.com]

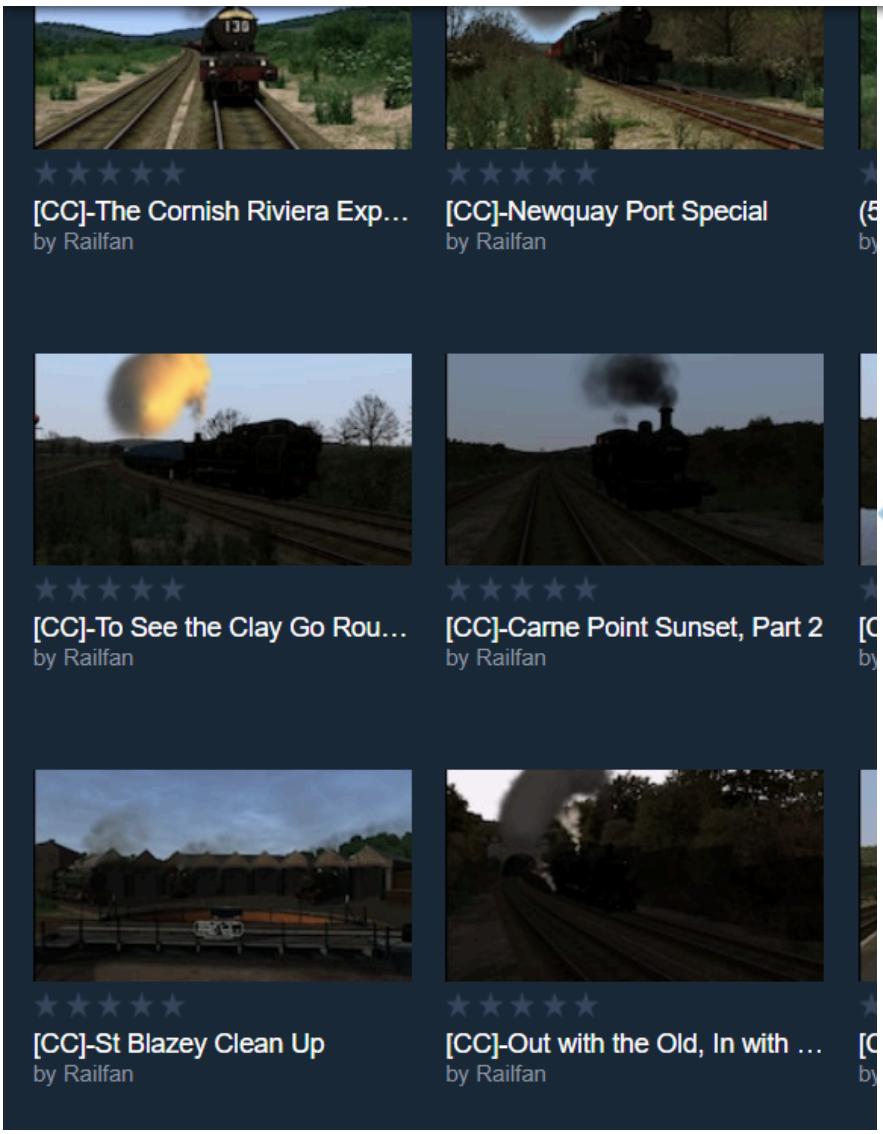
Or, for specific locos you can use the other method provided here.

TS Workshop Menu [www.railsims.com]

Search for what you want, a list of workshop scenarios will appear f

3 4 2

Award Favorited Share



Choose one of these (say '(57XX) Wheal Henry Steam') and click it
scenario's main workshop page.

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2

Award Favorited Share



Inspect it carefully and make sure you have all the necessary requir

Then, if you want to try it out, simply click on the green 'Subscribe' automatically downloaded onto your computer and the next time y will be able to find it.

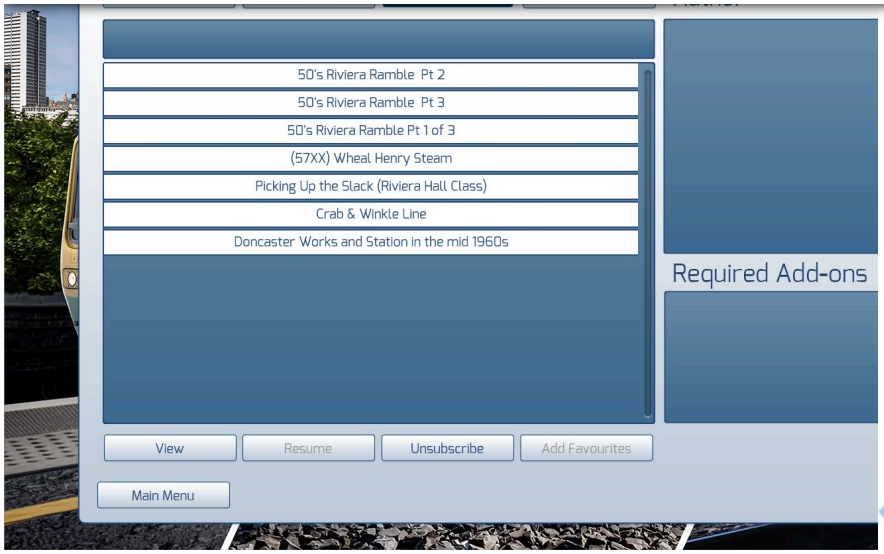
You can always check which workshop scenarios you have subscrib and select the 'Workshop' tab and press the 'Subscribed' button un

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



This will show your complete list of subscribed workshop items, but which to launch scenarios. It is rather buggy and there is a good ch load.

So do not bother to use the 'Workshop' tab to run anything.

Instead, still under the Drive Menu, select the 'Standard' tab, or if it select the 'Career' tab.

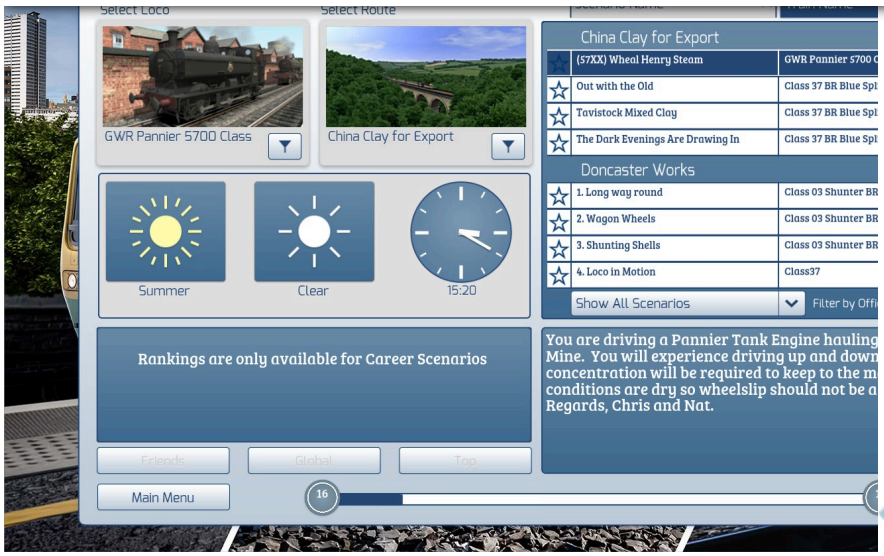
Find your route by scrolling down, and your newly-subscribed work among its related contents. There is a filter to just show workshop use it.

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

Select your scenario and press the 'Start' button. Enjoy the trip, and

Keyboard Controls

The official manuals are very thorough in listing which keyboard co given route or locomotive, but there is a handy list of controls whic guide was written in 2015, but is still very useful.



[ENG] TS2015 - Controls Overview

A Guide for Train Simulator Classic 2024

By: morrelo

Almost all keyboard controls for the TS 2015 (playing i controls for some special DLC's.

Click here to open the above guide in a new window

For convenience, I am placing the main keyboard controls here - wi

Train Motion Controls

- A - Throttle/Regulator UP
- D - Throttle/Regulator DOWN
- W - Reverser UP
- S - Reverser DOWN
- E - Gear UP

3 4 2
Award Favorited Share

- [- Loco Brake DOWN
- . - Dynamic Brake UP
- , - Dynamic Brake DOWN
- / - Handbrake *toggle*
- Backspace - Emergency brake

Additional Steam Locomotive Controls

- J - Small ejector on/off
- C - Cylinder valves on/off
- F, Shift+F - Open/close the locomotive fire box
- R, Shift+R - Increase/reduce the rate the fireman shovels coal
- I - Turn on/off the live steam injector
- K, Shift+K - Increase/reduce flow of steam to the live injector
- O - Turn on/off exhaust injector
- L, Shift+L - Increase/reduce flow of steam to the exhaust inject
- N, Shift+N - Increase/reduce blower
- M, Shift+M - Increase/reduce damper

Train Equipment Controls

- T, Shift+T - Open doors/Load/Unload/Refuel (depens on your tr
- H, Shift+H - Headlights *cycle*
- J - Secondary lights (some locos)
- K - Tertiary lights (some locos)
- L - Cab lights *toggle*
- V - Windscreen wipers ON
- Shift+V - Windscreen wipers OFF
- U - Blinds/glare panels *toggle*
- Z - Engine *toggle* start/stop
- P - Pantograph UP
- Shift+P - Pantograph DOWN
- Q - Alerter CANCEL
- C - Guard Acknowledge (non-steam locos)
- K - DRA *toggle*
- X - Sander *toggle*
- Space, Shift+Space - Horn (high/low)
- B - Bell

Train Task Controls

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2
Award Favorited Share

- Shift+G - Points (junction switch), turntable or reverser change
- Ctrl+Shift+C - Couple/uncouple rolling stock
- T, Shift+T - Open doors/Load/Unload/Refuel (depends on your
- Ctrl+-, Ctrl+= - Change cab

Train Views

- 1 - Cab view
- 2 - External front camera
- Shift+2 - Head-out-of-cab camera
- 3 - External back camera
- 4 - Trackside camera
- 5 - Passenger view
- 6 - Front coupling camera
- 7 - Overhead camera
- 8 - Exploration (free) camera
- 9 - Toggle 2D map
- Left arrow, Right arrow - Alternative cameras for the current vi
- Ctrl+, Shift+, Arrow keys, Mouse scroll wheel, Holding RMB - V
  your view

Other Controls

- Esc - Pause menu
- Pause/Break - Pause game without showing pause menu
- Ctrl+Q - Quit menu
- Ctrl+E - Enter world editor
- F1 - Task info
- F2 - Save menu
- F3 - Small HUD (ON/OFF)
- F4 - Full HUD (ON/OFF)
- F5 - Technical HUD
- F6 - Toggle labels
- F7 - Toggle rail vehicle number
- F8 - Toggle destination overlay
- F9/Shift+F9 - Reload assets
- Shift+Z - Show framerate
- Ctrl+S/F12 - Take screenshot
- Ctrl+Shift+1, Ctrl+Shift+2 - Increase/decrease braking difficulty

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share

move.

The user purno has written an excellent guide to this issue, so I am here.

For the checklist of what to do, please visit the guide



The "my train doesn't move" Checklist

A Guide for Train Simulator Classic 2024

By: Purno

Trying to get your train to move, but for some unknow
This guide provides a checklist of possible things that

Click here to open the above guide in a new window

Red Signals

Unable to complete a scenario because of a red light?

Try pressing the 'Tab' key or 'Ctrl + Tab'

The 'Tab' key sometimes permits you to pass a signal at red, or SPA equivalent of ringing up the signalman and asking if it is OK to proc needed when entering or leaving a yard. If you are reversing, you n instead.

If your path is not affecting any AI trains and the points (switches i pressing the 'Tab' key will normally result in the message "Permissi approved." If your path is not safe, either because an AI train has n or if the points are against you, the message will say "Permission to denied."

Yellow Signals Before Green

A signal shows Yellow to indicate "caution." In most cases this will b moment the next signal is at Red. Exceptions occur because of eith "limited aspect" or both.

Approach control may be used at certain locations requiring a large

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

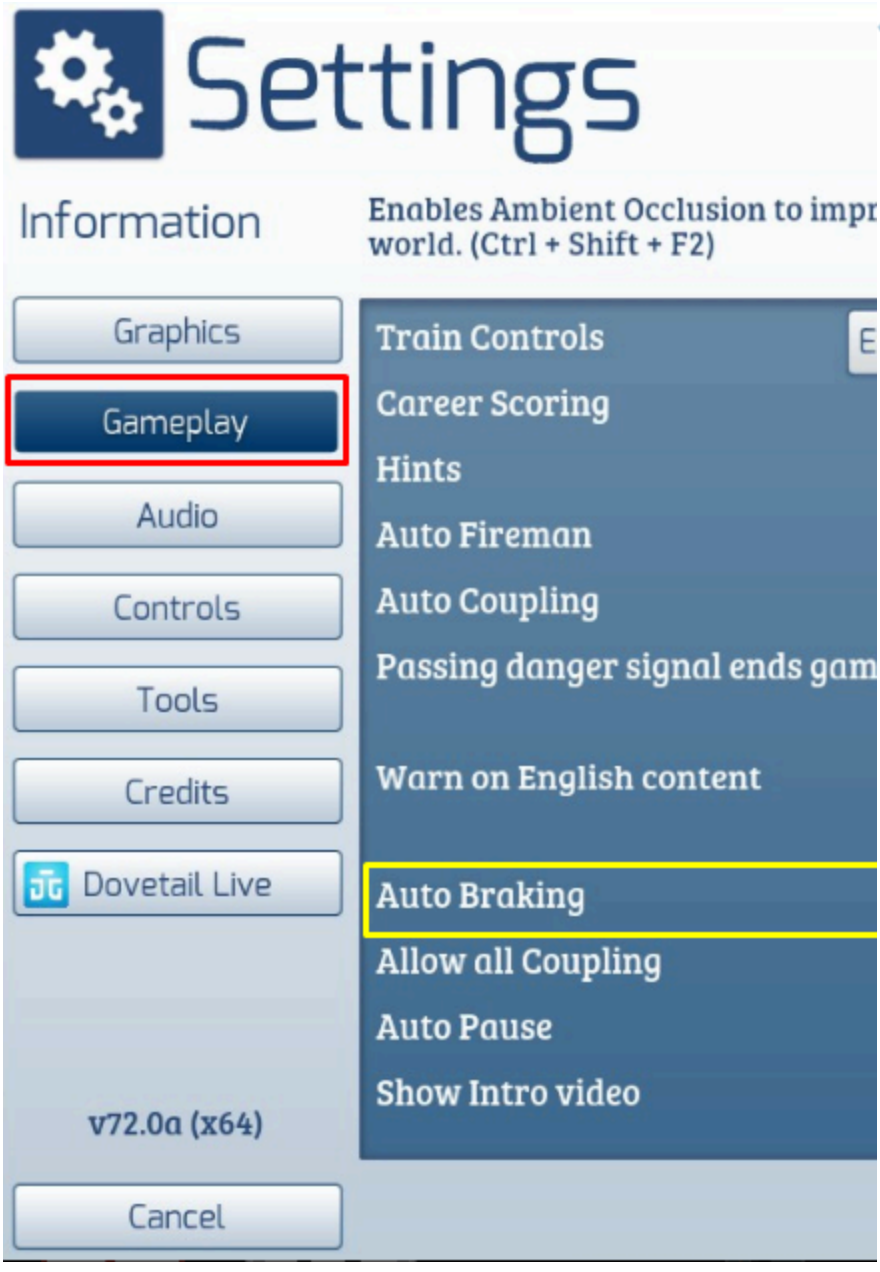
WARWICK RAIL

3 4 2
Award Favorited Share

Limited aspect, on the other hand, affects the entry signal itself. W
particular path at the signal, it forces a Yellow "caution" for that pat
leads into the terminus or yard, and where there will be no further s
'end of line' buffer lights.

Emergency Stop

If you have configured 'Auto Braking' in your game settings, the em
If your train is travelling too fast. To disable this feature, simply go t
settings and make sure that there is no tick mark in the box for the



DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2
Award Favorited Share

emergency brakes will be applied automatically. The manual for yo
this in full.

On some locomotives, if you merely apply the brakes fully (to 100%
come on and bring your train to a halt. Again, it is a good idea to re

Sometimes, the emergency braking system can be turned off in-ga

Steam Locomotives

At first glance, driving a steam locomotive might seem to involve a
variables. There are other guides available dealing with this, but I sl
explanation here to get you started - and keep you going.

In the simulation there are 3 main controls and 2 main gauges to k

- Regulator (level of steam supplied to cylinders)
- Reverser (direction of travel and amount of steam being used u
- Brake Lever (level of braking pressure being maintained)
- Brake Pressure Gauge (measured in inches - Hg)
- Steam Pressure Gauge (measured in pounds per square inch - I



Perhaps one of the most important things to remember is that stea
level of steam pressure to provide enough power to pull the train.

The way in which you manage and balance the use of the regulator
extent, the brake lever, will serve to either increase, maintain or din
pressure.

The Regulator



Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2
Award Favorited Share

to move, and then quickly reduce it to around 75% while the train b
thereafter slowly reducing it to a level which allows optimum perfo

The Reverser



The reverser determines the direction of travel (forward or reverse)
piston stroke at which the supply of steam to the cylinder is cut off
Maximum cutoff of 75% is used for starting a train and is reduced b
accelerates to speed. Generally, you will never find it useful to redu
12%.

The Brake Lever and Brake Pressure Gauge

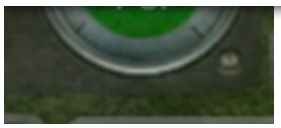


When you wish to get moving, pull the brake lever all the way dowr
brake pressure level to reach its maximum reading. Then slowly mo
the word 'Running' in the box above the pressure gauge. Press 'C' t
the cylinders. During the first few turns of the wheels, this will allov
collected inside to be expelled. If you don't do this, the cylinders wi
be disabled. After you get going, remember to press 'C' again once
four full turns or more to prevent steam being expelled needlessly f

The Steam Pressure Gauge

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2
Award Favorited Share



This is the gauge you need to keep an eye on to ensure that steam
- or your train will simply slow to a halt.

When this gauge is coloured green, it means that steam is being pr
greater than the rate at which it is being used up.

If the gauge is coloured red, it means the locomotive is using up ste
produced - and will eventually drop so much that the steam pressu
engine.

Once your train is running at a decent rate, it is a good idea to redu
regulator and the reverser as far as you can without losing speed. T
different locomotives. You will need to get just the right combinatic
the steaming conditions at hand. In some locos with an average loa
maintained with the regulator set at 28% and the reverser set at 18
experiment to find the best combinations for your loco and the con
operating (going up a hill, accelerating, coasting or slowing down e

Here's a list of steam engine keyboard controls.

A, D - Increase/decrease throttle or steam engine regulator
W, S - Reverser
Apostrophe, Semicolon - Increase/decrease the train brake
Square brackets - Increase/decrease the locomotive brake
Period, Comma - Increase/decrease the dynamic brake
/ - Handbrake
J - Small ejector on/off.
C - Cylinder valves on/off.
F, Shift+F - Open/close the locomotive fire box.
R, Shift+R - Increase/reduce the rate the fireman shovels coal.
I - Turn on/off the live steam injector.
K, Shift+K - Increase/reduce the flow of steam to the live injector.
O - Turn on/off exhaust injector.
L, Shift+L - Increase/reduce the flow of steam to the exhaust injecto
N, Shift+N - Increase/reduce blower.
M, Shift+M - Increase/reduce damper.

No two locomotives are the same, but most have manuals which de
controls in greater detail.

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share



Driving the Steam Locomotive and th

A Guide for Train Simulator Classic 2024

By: R.C. de Visser

> Expect loading time due to the amount o
update: Nov 19, 2015. 11.00 pm / 23.00 hr
your desired subject then click the chapter
group...

Click here to open the above guide in a new window

and here



Driving and Firing Steam Engines

A Guide for Train Simulator Classic 2024

By: MattPeddlesden

A brief guide to help explain how to get the best perfo
Train Simulator 2013. Originally written to help drive th
MeshTools, the techniques are equally relevant to...

Click here to open the above guide in a new window

Turntables & Traversers

To operate them press either G or Shift-G

One question which occasionally crops up in the forums is "how do
same question is sometimes asked about traversers.

Turntables and traversers are fairly similar in nature. They both com
can be animated and moved to connect to one of a number of trac
turntable or traverser, a player's locomotive may be moved so that
or additionally, in the case of a turntable, be rotated so that it faces

Think of turntables and traversers as being rather like glorified junc
like points (or switches as they are known in the US)

As with junctions, they can either be controlled manually (via a leve
request to change the junction ahead (or behind). This request can
using the shortcut key G (or Shift-G).

Sometimes you may find that the turntable or reverser seems to ge

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share

Foreman Dan Hernandez

Need to stop the radio chatter? The following guide shows how to r
radio.



Silencing "Foreman Dan Hernandez": removing/

A Guide for Train Simulator Classic 2024

By: Ewo

Updated 25 June 2015. A short guide on how you can
various US locomotives, so you no longer hear people
Dan Hernandez".

Click here to open the above guide in a new window

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

Common Error Messages

The following are some common error messages you may see in Tr
any other error messages, they may be Steam-related so you are a
directly for more information and support. If none of the solutions
Dovetail Games customer support directly and they will try to help

Unable to load file - Scenario.bin/ tracks.bin
This message displays when there is an issue loading a scenario. Th
can occur. The most common of these is that you are missing some
scenario. Alternatively the error may occur if you have made chang
case, clearing the Train Simulator cache and verifying your files will
data. In the event that this does not address the issue please conta

**Failed to save dump file to or Saved dump file to (dump file locati
stopped working**
All of these messages occur when Train Simulator encounters an er
Clearing the Train Simulator cache and verifying your files will in m
This could be due to hardware limitations also, so we recommend t
machine specifications are suitable by checking them against those
store page.

**ERROR: Failed to create vertex buffer (D3DERR_INVALIDCALL)
File: DxCommon\cHcVertexManagerDx.cpp
LINE:1234**
This error message occurs when something 3D is trying to be creat
main cause of this issue is your graphics card has run out of memo

3 4 2
Award Favorited Share

RAM available to approximately 3GB. We strongly advise ensuring y
operating system to run our products on. If you are running other p
this may take up memory that could be used to run the game succe
programs you currently have running in the windows task manager
and unnecessary processes before running the game.

2. Check that your graphics card meets the minimum specifications
Simulator.

3. Check that you are running the latest drivers for you graphics ca
on the website for manufacturer of your graphics card. If you have
driver and you are now getting this error when you wasn't previous
driver.

4. Reduce your graphics settings in the Train Simulator menu to a l
asking your graphics card to do more than it can handle. Reduce th
their lowest and run a scenario. If there error does not occur increa
next level and run the scenario again. Repeat this process until the
does, reduce the graphics settings back to the last level when Train
issue. The 'scenery detail' graphics option is a good place to start.

5. Try reinstalling DirectX. You can find a local installation here: [Ins
(x86)\steamapps\common\RailWorks\Install

Error: Game failed to start [missing executable file]
This is usually a permission issue- please ensure you are running bo
Admin mode and make exceptions for both in your Firewall and/ or

Consist builder - Can't load rail vehicle [loco name]
This message will occur when assets such as a locomotive is missin
will appear in the error message. Reinstalling the addons may work
that you do not have any third- party addons installed that may cau
content.

------ OTHER ------

Additional Help

This guide may not be able to answer all of your questions. If so, yo
solutions at

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

WARWICK RAIL

3 4 2

Award Favorited Share

The Peter Hayes TS Troubleshooting Guide [www.dropbox.com]

In addition, there are many other members of the TS community w
guides and videos.

Train Simulator Guides

You might also find answers to your questions in the following sect

General Train Simulator Discussions

Playing Train Simulator

Get Help and Advice

Support FAQ



Our TSC Guides

We have written a range of guides for Train Simulator Classic

Click the link below to access them all:

Warwick Rail's TSC Guides

Help Us Improve the Guides

Our Wishlist

We need complete access to all route DLC to truly improve the cont
provide to the community.

If you can help, please consider gifting us an item or two on our wi

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
K



Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2

Award Favorited Share

thumbs up - and of course don't forget to add it to your favourites.

Thank You for the 12 Awards

I would just like to say a very big thank you for the 12 generous aw
this guide. Your kindness is most encouraging and all the awards ar

Copyright

This guide © Copyright Warwick Rail 2022-2023, all rights reserve

19 Comments Subscribe to thread (?)

Add a comment

Warwick Rail [author] Dec 14, 2023 @ 7:22pm
I do not own an AMD Radeon graphics card, so I have no dire
However, others in the Steam Forum have given their views

The following advice has been shared by the user known as '

I have added this advice to the guide under the section 'AMD
Settings.'

enfield250 Dec 13, 2023 @ 7:22am
Hello!
I really like your comprehensive Guide, however I don't have
mines a Radeon. Do you have an equivalent set up for Radeo

HUNdar May 7, 2023 @ 10:22am
yeah that works except for one loco: DB50 from Railforge. I a
over 2 months.

Warwick Rail [author] May 7, 2023 @ 9:46am
One sure way to apply or release a loco's handbrake is to use
the coupling icon. From there you can see the state of the br
the wagons and carriages. Just click on the loco icon' s whee
handbrake on or off as desired.

HUNdar May 7, 2023 @ 9:08am

DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides

3 4 2

Award Favorited Share

Steam Locomotives
DLC Manuals
Turntables & Traversers
------ OPTIMISATION ------
Foreman Dan Hernandez
Getting the Game to Load
Common Error Messages
Running in Borderless Mode
------ OTHER ------
Graphics Card Settings
Additional Help
GPU Scheduling
Wind
WARWICK RAIL
Game Settings
Our TSC Guides
Frame Rates (FPS)
Help Us Improve the Guides