

UK Modern Diesel and Electric #1

V1.1.2



A weathered class 43 departs Reading. Re-skin donated by nattydredd

Contents

Welcome!.....	2
Do I have the latest pack installed?	2
How can I find out what is in this pack?	2
Scenario Creators – Find the Rolling Stock you Want Quickly.....	2
Object Set Filters Required for This Pack.....	2
How Can I Get Involved?.....	3
Additional Manuals for Pack Content	3
Class 58 Locomotive.....	3
Known Problems.....	6
Licensing Conditions for Donated Content	6
Licensing Conditions for Hosting Packs.....	6
Credits.....	7
Version History.....	8

Welcome!

This pack is part of a community project started by members of the UKTrainSim community. Our aims are simple:

- Build up a bank of resources for the community by combining skills and working together
- Make the packs simple and straight forward to use

Do I have the latest pack installed?

Every time you install a UKTS Freeware Pack it will automatically check to see if a more up-to-date version is available and warn you if you are trying to install an obsolete pack.

A small utility called “UKTrainSim Freeware Pack Updater” is also installed with every pack. This utility will allow you to quickly and easily check if updates for any of your packs are available. It also lists packs that you do not have with straight forward links to click and download them

How can I find out what is in this pack?

A gallery of images showing the items available in each pack can be accessed by visiting:

uktrainsim.com/FreewarePacks/galleries

A Google Documents spread sheet is available which gives further details of all the rolling stock included in each pack.

[View Google Documents Spread sheet](#)

Scenario Creators – Find the Rolling Stock you Want Quickly

All items in the UKTS Freeware Rolling Stock packs have standardised names. Due to the limited space available to display asset names in game a system of short hand codes is used. A “Quick Reference” of the codes is installed in the same folder as this manual and is also [available online](#). There is also a [YouTube video](#) which shows how to enable and find the content in each pack.

Object Set Filters Required for This Pack

The following Developer and Product Filters must be enabled to use the content of this pack when creating scenarios:

- DRB_SimStuff → UK
- Jivebunny → GWML
- Kuju → RailSimulator

How Can I Get Involved?

There are many ways members can take part in the project:

- Donate a new asset to the pack
- Donate a re-skin to the pack
- Research buildings, objects etc. to assist object creators
- Take pictures that can be used as texture resources
- Assist with the organisation of the packs
- Create tutorials to assist other members

If you have questions or want more information please visit the [Get Involved](#) page on the UKTrainSim Freeware Packs web site.

Additional Manuals for Pack Content

This section contains the manuals that came with certain items of rolling stock. You are strongly advised to read it if you want to get the most out of the pack. They contain background information and instructions for use.

Class 58 Locomotive



This is a version of the BR class 58 diesel locomotive in its original configuration and "red stripe" Railfreight paint. A cabview is included. Default sound samples are used to create the sounds.

Please see the notes below about operating the train brake lever with the mouse, and the general controls usage.

Usage

The supplied files will not overwrite any existing stock. To use this locomotive you will need to create your own consists in a scenario or free-roam session. The object set DRB_SimStuff - UK must be enabled in the scenario object window. The object set Kuju - Railsimulator must be ticked in either the route or scenario object window. See the railsim documentation for how to do this.

Note if you mix this item with some of the default locomotives\wagons\carriages in a single consist the braking behaviour will be unrealistic, and any reduction in brake pipe pressure will cause wagon brakes to be completely released (due to triple valves).

Driving this locomotive

The train brake lever can be set to one of 3 discrete positions:

Release With the lever in this position brake pipe pressure will be increased at a constant rate until 5 bar pressure is reached. At this pressure the brakes are fully released.

Hold With the lever in this position the current brake pipe pressure will be held, i.e "lapped". A brake pipe pressure between 4.7 bar and 5 bar will not be maintained, but will be automatically reduced to 4.7 bar, i.e the minimum brake application level.

Apply With the lever in this position brake pipe pressure will be reduced at a constant rate until 3.35 bar pressure is reached. At this pressure the brakes are fully applied, i.e full service.

The train brake lever is spring centered to the Hold position. To allow this a modification to mouse operation has been made. In order to move the lever with the mouse both the left and middle mouse buttons must be held down. When the middle mouse button is released the lever will return to the Hold position.

Press the emergency brake plunger to go directly to an emergency application. Note it is self latching and must be pressed again before the brakes can be released, using the train brake lever. The emergency application provides the same level of braking as full service.

The locomotive brake lever operates in the same manner as the train brake lever, with Release, Hold and Apply positions, but it varies locomotive bogie brake pressures between 0 bar (released) and 5 bar (fully applied). It is also self lapping. It is not center sprung. Any lever position which is not fully back or fully forwards will "Hold" the brake pressure.

The overcharge function can be operated by pressing the virtual cab overcharge button when the brake pipe pressure is 5 bar. Brake pipe pressure will increase to 5.4 bar and will then slowly reduce back to 5 bar. This will take several minutes. The brake can still be operated during this period, and the overcharge will then be cancelled.

Power control includes a simulation of automatic sanding and automatic power reduction. It is simplistic and not foolproof (bit like the real systems!), so power should always be applied gently. As a guide the book figure for maximum tractive effort occurs at about 3000 Amps.

A simple simulation of slow speed control is included. Operate as follows:

- 1 Start with the train stationary.
- 2 Ensure the reverser is forward, and the power lever is off (fully forwards).
- 3 Move the slow speed switch to the up position by clicking on it. This is the button on the back of the power control pedestal.
- 4 Move the power lever to the ON notch.

Power will be applied, and will be moderated to attempt to maintain between 1.5 and 2 mph. Note that the 3 mph speedo only moves when slow speed mode is selected.

Cancel slow speed as follows:

- 1 Move the power lever to off.
- 2 Apply the train brake to stop the train.
- 3 Move the slow speed switch to the down position by clicking on it.

The loco can now be driven as normal.

When the reverser handle is in forward or reverse every 1 minute a vigilance beeper will sound. If you do not acknowledge this by pressing the space bar within 4 seconds the emergency brake will be applied, even if the train is stationary. To use the space bar for this purpose the horn has been moved to the enter key (on the numeric keypad). The 1 minute timer is also reset to zero if the train brake or power handle are operated.

The handbrake indicator has three states. "off" and "on" are self explanatory. The diagonal lines indicates the handbrake is partially applied.

Use of Keyboard

This locomotive uses custom key mapping. This will not affect the default key mapping of the simulator, including any customisations you may have made. The key mapping differs from the default by:

ENTER sound horn
SPACE BAR cancel vigilance warning.

Use of F4 HUD

The power lever and train brake can be operated with the appropriate F4 HUD controls. Note the train brake will need to be operated with the double mouse button technique described above. Locomotive brake and reverser cannot be operated using the HUD.

Known Problems

Duplicate Loco Numbers SBHH

This is a known issue with Railworks2 where it will quite happily allow duplicate loco numbers that are specified in the loco .bin files within the editor, but then throws a SBHH error once you click the play button or exit out of the editor and then try to launch a scenario via the main route window.

Work Around

Scenario creators should be careful not to place more than one item of any locomotive which is a singled numbered or named type.

Class 58 Train Brake Issues

The Freeware Pack installer removes appropriate blueprint cache (blueprint.pak) files when it installs. For some reason the class 58 brakes sometimes still fail to work until the blueprints have been cleared a second time

Work Around

Clear your blueprint cache from the RailWorks loading screen (Tools and Options tab)

Licensing Conditions for Donated Content

To ensure that assets remain permanently available to route builders once donated contributors must agree to the following conditions:

- Content may NOT be withdrawn from the pack after it has been donated
- All content may be used, distributed, re-skinned and re-packaged with any freeware route.
- The complete pack may be hosted on any website providing no profit is made by offering the download
- The content may be edited by a Freeware Pack administrator so that it fits in with the standardised pack structure
- The content may be edited by a Freeware Pack administrator to improve the realism of the item. This is primarily used for rolling stock donations and their physics (braking, loading etc parameters).

You may opt out of this condition if you do not want any improvements to be made to your donations by informing a Freeware Pack administrator

- Freeware Packs may be distributed on UKTS CD's to provide an alternative to those without broadband Internet access and so they may be given away at UKTS Live events

These conditions will allow us to create a reliable, simple and completely free resource for the community. For the latest conditions visit <http://www.uktrainsim.com/FreewarePacks>.

Licensing Conditions for Hosting Packs

The following conditions apply to anyone wishing to host the packs on a site other than UKTS:

- **Permission must be granted by UKTS before packs may be hosted on alternative sites**
- The download must be available for free
- No profit may be made by offering the download
- A link to the original UKTS download must be provided on the download page

- The date and version number of the pack must be clearly given on the download page
- You must email FreewarePacks@rwdecal.co.uk supplying a valid email address and link to the download - This ensure we can contact you (the host) when a new version is released making it easy for you to update your download
- You must remove the download at the request of a UKTS Freeware Pack administrator

These conditions ensure users can obtain free and consistent packs. For the latest conditions visit <http://www.uktrainsim.com/FreewarePacks>.

Credits

These packs would have been impossible without members of the community generously donating their time, energy, skill and expertise to the project.

My thanks go to Mike Simpson for his indispensable RWTools, David Richardson for his design skills and Matt Peddlesden for his support. Kariban and Kromatikse have done incredible work with rolling stock physics and many others have offered help and assistance along the way. Without you all this would not have been possible.

Donations for this pack were received from (alphabetical order):

- 47815
- 58002
- Darpor
- davveb
- jivebunny
- nattydredd
- Will

Version History

1.0.3 - 17th August 2011

1st public release.

1.0.4 - 30th August 2011

- Added version history to manuals
- Fixes to registry utility button
- Improved version detection script to prevent installer crashing
- Tweaks to updater program
- Warning popup added to uninstall routine informing users that removal of rolling stock may prevent scenarios which use them from working
- Additional content added:
 - **UKTS 27153:** East Coast HST Power Cars by nattydredd

1.0.6 - 1st October 2011

- Added new version of updater program
- Modified installer to allow packs to contain the same asset if needed
- Additional content added:
 - **UKTS 26112:** Class 58 - Coal Sector
 - **UKTS 26350:** Class 58 Mainline Blue Pack
 - **UKTS 26630:** Class 58 EWS Pack
 - **UKTS 26662:** Class 58 Fertis Pack
 - **UKTS 26677:** Class 58 Seco Rail Pack
 - **UKTS 26797:** Class 58 TSO Pack

1.1.0 - 23rd December 2011

- Renamed all items using the new naming system
- Reduced uninstall footprint significantly by storing data separate to installer code
- Content updated:
 - Updated HSTs to add lights and rain effects
- Additional content added:
 - **UKTS 25157:** East Coast HST's

1.1.1 - 24th April 2012

- Content updated:
 - **UKTS 26112:** Class 58 - Coal Sector by Darpor
- Additional content added:
 - Class 43 FGW Barbie Original by JiveBunny
 - **UKTS 28602:** GNER HST Repaint by davidhossack
 - **UKTS 28606:** East Coast Interim HST Repaint by davidhossack
 - **UKTS 28607:** National Express East Coast Interim HST Repaint by davidhossack
 - **UKTS 28646:** East Coast HST Powercar Repaint by davidhossack (renamed folder to EC1 as already have a folder with a different version called EC)

1.1.2 - 1st October 2013

- Updated content:
 - **UKTS 28646:** East Coast HST Powercar Repaint by DavidHossack
 - Problems with controls on HST's fixed. Error in LUA script