

## TSRS / WLS 1980s TSR Signs



### Introduction

Thank you for downloading this 1980s Blue TSR pack from Wrightline Simulation! Contained in this document is the pack contents, installation instructions and how to use the signs.

Between the 1980s and 1990s, TSR (Temporary Speed Restriction) boards were depicted with white digits on a blue background before being superseded by black digits on a yellow background that are used today. This pack recreates the blue TSR signs used all over the National Network with custom models done by TSRollingStock.

### Installation

- 1) Copy the 'Assets' folder to your RailWorks directory;
- 2) If you don't know where your RailWorks directory is, go to:
  - a) Steam;
  - b) Library;
  - c) Right-click 'Train Simulator Classic' from the list of games on the left;
  - d) Click 'Properties';
  - e) Click 'LOCAL FILES' on the left;
  - f) Click 'Browse...' on the right;
  - g) Copy and paste the downloaded 'Assets' folder into the new folder that just opened.

### Requirements

For the pack to work as intended, the [European Locomotive & Asset Pack](#) is required for the portable AWS magnet to work.

## Usage in Scenarios

In the scenario editor, click the object set filter, scroll down the developer list to 'WLS' and check 'TSR\_1980s'. They appear in the Track Infrastructure tab (the icon in the bottom left with a semaphore signal).

## Signs Included

A wide range of signs are depicted in the pack, which are below:

- Single speed board;
- Single speed board with warning;
- Single speed board with directional arrow (left and right);
- Single speed board with warning and directional arrow (left and right);
- SPATE board;
- SPATE board with directional arrow (left and right);
- SPATE board with warning;
- SPATE board with warning and directional arrow (left and right);
- Termination board;
- Double differential speed board;
- Double differential speed board with warning;
- Double differential board with directional arrow (left and right);
- Double differential board with warning and directional arrow (left and right);
- Emergency Speed Indicator board (aka EROS, Dalek);
- Portable AWS magnet;
- Limited clearance versions of the warning boards and EROS signs.



*Selection of signs included*

## Usage

### Speed Boards

The speed boards in this pack work by placing the speed sign next to the track and using a track link, double clicking on the speed sign and entering a speed into the speed box in a right-hand side pop-out.



*Placing a TSR speed sign and entering a value*

The differential speed boards work the same way, however two entry boxes will appear. The entry box on the left applies to the upper speed limit and the box on the right applies to the lower speed limit. You will need to play the scenario for the speeds to show.

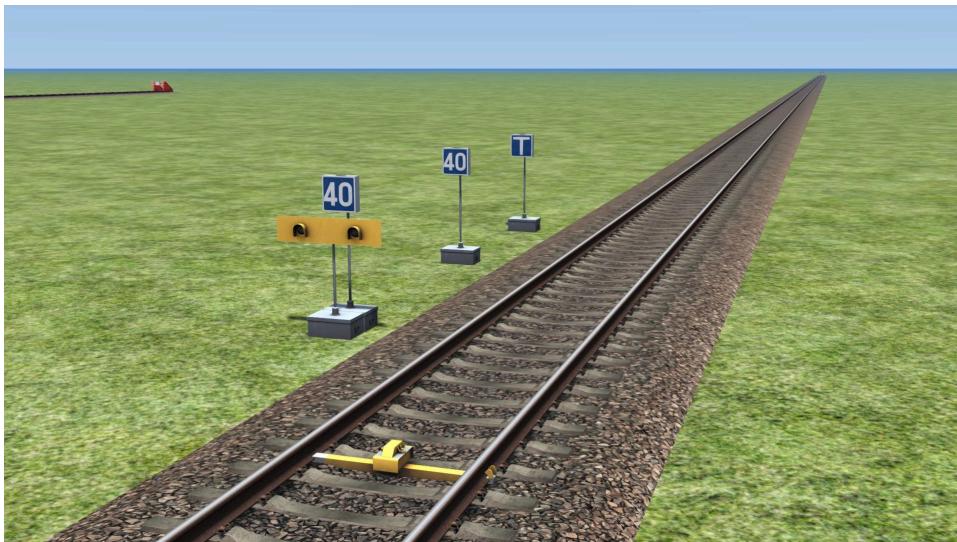


*Differential speed limit in the scenario editor*

To help place down the signs so they're parallel to the track, hold TAB to align the sign with the track. This is also helpful for placing the portable AWS magnets.

## TSRs

The general layout of a TSR comprises a portable AWS magnet, followed by a warning board, followed by the speed board, followed by a termination board at the end.



*Layout of a TSR (not to scale)*

## ESRs

Emergency Speed Restrictions are speed restrictions that don't appear in notices, therefore the driver wouldn't have any warning the speed restriction is there. Therefore, additional signs are erected to let the driver know they're approaching a TSR.

Before EROS boards were introduced, handsignalers and detonators were used to warn drivers of ESRs. Trials in 1982 commenced where a lineside sign was positioned ahead of the ESR to replace the handsignalers.



*Layout of ESR (not to scale)*

## Repeaters

Today, repeater boards remind the driver of an ESR/TSR from a position where the train would be at rest (this could be a loop or platform) that would be between the warning board and where the ESR/TSR starts. However, these weren't introduced until 1992, so these boards have been omitted from this pack.

## Junctions

If your TSR is positioned on a junction, directional arrows are used to signify where the TSR is enforced. If your TSR is on a line diverging to the left, use the TSR signs with a left arrow - the same with the right arrow if your TSR is diverging to the right.



*Layout of right-diverging TSR (not to scale)*

## Credits

TSRollingStock	-	Modelling, texturing and scripting
Wrightline Simulation	-	Testing
Railway Signs and Signals of Great Britain	-	TSR knowledge

If you enjoy TSRollingStock's work, you can view their [Ko-Fi page](#) for rolling stock packs for Train Sim Classic.

## Terms & Conditions

This pack is for personal use only and may not be reuploaded to other sites.

You are more than welcome to use the TSR signs in your commercial projects, but only as a dependency and must not be included in the project itself.

The assets in this pack remain copyright of TSRollingStock.

## Research Sources

Information for this manual has been taken from [Railway Signs and Signals of Great Britain](#).