



dovetail  
GAMES

# Class 455/8 Southern



- 1 BACKGROUND ..... 3**
  - 1.1 The Multiple Unit..... 3
  - 1.2 Design & Specification ..... 3
- 2 ROLLING STOCK..... 4**
  - 2.1 Unit List..... 4
- 3 DRIVING THE CLASS 455/8 ..... 6**
  - 3.1 Cab Controls ..... 6
  - 3.2 Locomotive Keyboard Controls ..... 6
  - 3.3 General Keyboard Controls ..... 7
- 4 USING CUSTOM NUMBERING ..... 8**
  - 4.1 Assigning Destinations and Numbering ..... 8
  - 4.2 Destination List..... 8
- 5 SCENARIOS ..... 9**
  - 5.1 [455/8] 01. Between a Bridge and a Palace ..... 9
  - 5.2 [455/8] 02. Tight in the Smoke ..... 9
  - 5.3 [455/8] 03. It’s Snow Joke ..... 9
- 6 ACKNOWLEDGEMENTS ..... 10**

# 1 Background

## 1.1 The Multiple Unit

Originally starting life as Class 510, the Class 455/8 was introduced in 1982 to replace the aging 4SUB and 4EPB units. Class 455/8s were part of the first batch of units to be delivered between 1982 and 1984. All 46 Southern Units were allocated to Stewarts Lane Depot and 28 allocated to South West Trains at Wimbledon Depot. Formed of four vehicles, a Driving Trailer Second Open at each end, a Motor Second Open and Trailer Second Open in between, the Class 455/8 differed in a number of ways to Class 455/7 and Class 455/9 units.

In June 2012, Southern Trains refurbished the fleet of 455/8s, retaining the original 3+2 seating layout but used high-back seats to improve passenger comfort especially for commuters travelling long distances. Southern have also removed the gangway and door from the front of the trains, replacing them with an air conditioning unit. Some do not consider the new front end plate aesthetically pleasing. Units are painted in the green Southern livery. They have also installed digital information boards and voiceover information systems and added new covers to the lights for a more pleasant ambience. New inter-car doors and handrails were added alongside new litter bins under the seats. Finally, LED marker and tail lights were added.

## 1.2 Design & Specification

<b>Builder</b>	BREL York
<b>Locomotive Weight</b>	135.95 tonnes
<b>Vehicle Length</b>	65.1ft (19.83m)
<b>Vehicle Width</b>	9.3ft (2.82m)
<b>Vehicle Power</b>	Electric (750V DC Third Rail)
<b>Top Speed</b>	75 MPH (121km/h)
<b>Brake Types</b>	Air (Westcode)

## 2 Rolling Stock

### 2.1 Unit List

#### DTSO



#### TSO



**MSO**

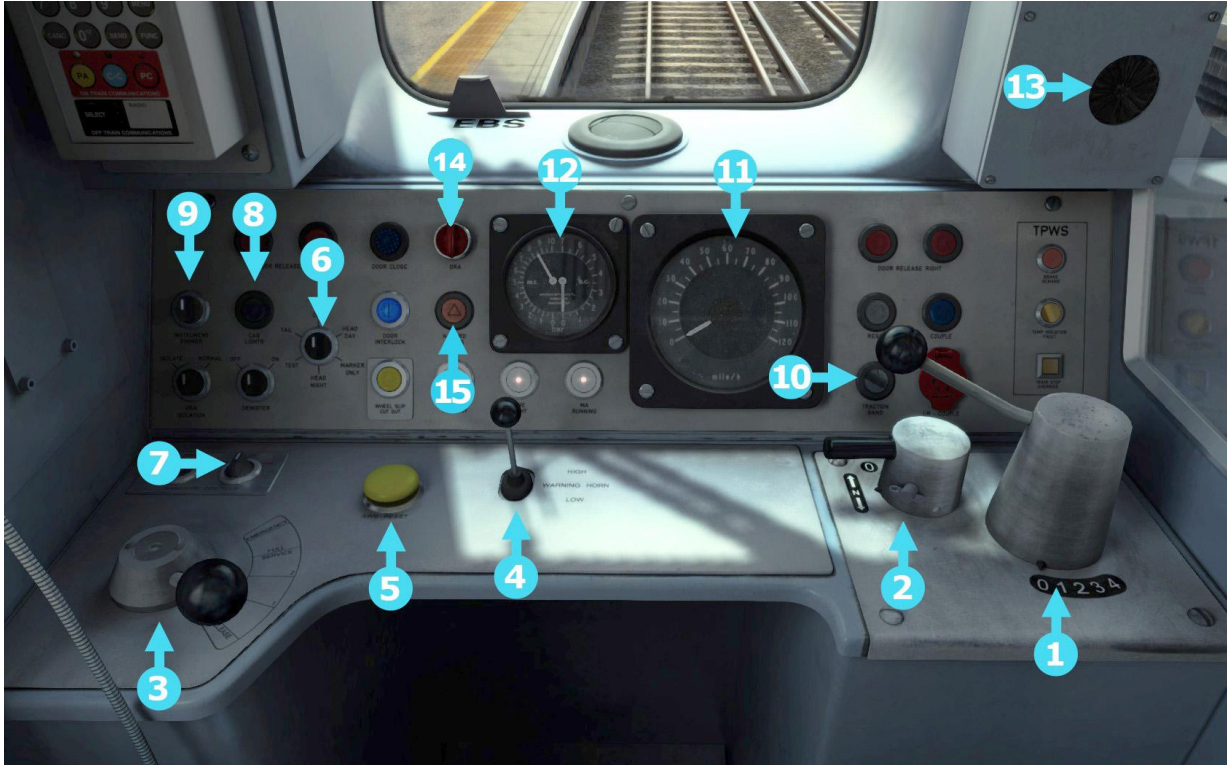


**DTSO**



# 3 Driving the Class 455/8

## 3.1 Cab Controls



- |   |                   |    |                            |
|---|-------------------|----|----------------------------|
| 1 | Throttle          | 9  | Instrument Lights          |
| 2 | Reverser Lever    | 10 | Sander                     |
| 3 | Train Brake       | 11 | Speedometer                |
| 4 | Horn              | 12 | Brake Pipe/Brake Reservoir |
| 5 | AWS Reset         | 13 | AWS Sun Flower             |
| 6 | Exterior Lights   | 14 | DRA                        |
| 7 | Windscreen Wipers | 15 | Hazard Lights              |
| 8 | Cab Light         |    |                            |

## 3.2 Locomotive Keyboard Controls

Key Equivalent	Action
----------------	--------



**Throttle.** Decrease or Increase Throttle Control.

**Reverser.** Move reverser control Forward or Backward.

**Train Brake.** Increase or Decrease Train Brake.

### 3.3 General Keyboard Controls

**Key Equivalent**

**Action**



**Load/Unload** passengers.



**Lights.** Repeatedly pressing will cycle through headlight states where appropriate.



**Windscreen Wipers.** Press once to switch on and again to switch off.



**(Expert) Alerter.** The Alerter is a system used on some trains to ensure that the driver has seen a signal. If the alert sounds (a black/yellow striped symbol is shown on the Driver's display), this must be acknowledged by pressing the Alerter button or the emergency brakes will be applied.



**(Expert) Sander.** Causes sand to be laid on the rails next to the wheels to assist with adhesion. Press and hold to activate sander, let go to stop.



**Horn.** Sound the horn's low tone.



**Horn.** Sound the horn's high tone.



**Couple manually.**



**Driver Safety Device (DSD)** can be enabled/disabled by pressing **CTRL+D**. If the train is travelling above 5MPH a 60 second timer begins. If no driving input is detected in that time, an alarm will sound. This must be acknowledged with **Numpad Enter** or an emergency brake application will take place. After coming to a standstill the throttle must be reset to the '0' position before the train can depart.

## 4 Using Custom Numbering

### 4.1 Assigning Destinations and Numbering

When placing a Class 455/8 in custom scenarios you may want to change the vehicle number, set number or destination board. All of these properties are controlled by editing the rail vehicle number which is accessed by double clicking the rail vehicle when editing a scenario within the scenario editor.

In order to display a specific destination, the correct value must be entered into the vehicle properties window. This number consists of a 12 digit value containing both letters and numbers.

The 12 digit value is arranged like so: **aA#UUUUU#VVV**

<b>a</b>	= LED Display blind.
<b>A</b>	= Role Blind
<b>UUUUU</b>	= the Unit number displayed on the front of the driving vehicle.
<b>VVV</b>	= the Vehicle number displayed on the side of the coach.
<b>#</b>	= Blank or Space

Only the DTSO has a 13 digit code, other units only consist of 5 digit unit numbers.

### 4.2 Destination List

<b>a</b>	Battersea Park	<b>o</b>	South Bermondsey
<b>b</b>	Beckenham Junction	<b>p</b>	South Croydon
<b>c</b>	Caterham	<b>q</b>	Streatham Hil
<b>d</b>	Clapham Junction	<b>r</b>	Sutton
<b>e</b>	Guildford	<b>s</b>	Tattenham Corner
<b>f</b>	Epsom	<b>t</b>	West Croydon
<b>g</b>	Epson Downs	<b>u</b>	Wimbledon
<b>h</b>	Horsham	<b>v</b>	Depot
<b>i</b>	Kensington Olympia	<b>w</b>	Special
<b>j</b>	London Victoria	<b>x</b>	Not in Use
<b>k</b>	London Bridge	<b>y</b>	East Croydon
<b>l</b>	Purley	<b>z</b>	Crystal Palace
<b>m</b>	Redhill		
<b>n</b>	Reigate		

## 5 Scenarios

***\*\*For driving tutorials, please visit the Academy from the main TS2015 menu screen\*\****

### **5.1 [455/8] 01. Between a Bridge and a Palace**

Take a Class 455, running a morning passenger service, from London Bridge to Crystal Palace.

- **Duration** 30 Minutes
- **Difficulty** Easy

### **5.2 [455/8] 02. Tight in the Smoke**

An evening passenger run from South Croydon to Victoria.

- **Duration** 30 Minutes
- **Difficulty** Medium

### **5.3 [455/8] 03. It's Snow Joke**

Take charge of a Class 455 running a wintery evening passenger service from Bermondsey to Croydon.

- **Duration** 40 Minutes
- **Difficulty** Hard

## 6 Acknowledgements

Dovetail Games would like to thank the following people for their contribution to the development of the Class 455/8.

Jordi Blumberg  
Skyhook Games  
Beta Testing Team

