



dovetail  
GAMES

# BR Class 415/6 4-EPB EMU



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# 1 Background

## 1.1 Class 415 4-EPB

Introduced in 1951, the BR Class 415 4-EPB (4-car, Electro-Pneumatic Brake) is a classic southern 'slam-door' third rail EMU which had a career spanning 44 years. Each 4-car set was comprised of two powered driving cars and two trailers, originally with compartment seating. The class was designed for a mixture of inner-city and suburban operations on the third rail DC lines out of South London and its top speed of 75mph was enough for runs further out of town.

In 1960 the first British Rail designed units were introduced, based on the then current Mark 1 Suburban stock offered superior strength and weight saving over the Southern Bulleid design.

## 1.2 Design & Specification

<b>Builder</b>	BR Eastleigh
<b>Locomotive Weight</b>	137t
<b>Vehicle Length</b>	78.46m
<b>Vehicle Power</b>	1000hp (746kW)
<b>Top Speed</b>	75mph (121km/h)
<b>Brake Types</b>	Electro-Pneumatic

## 2 Rolling Stock

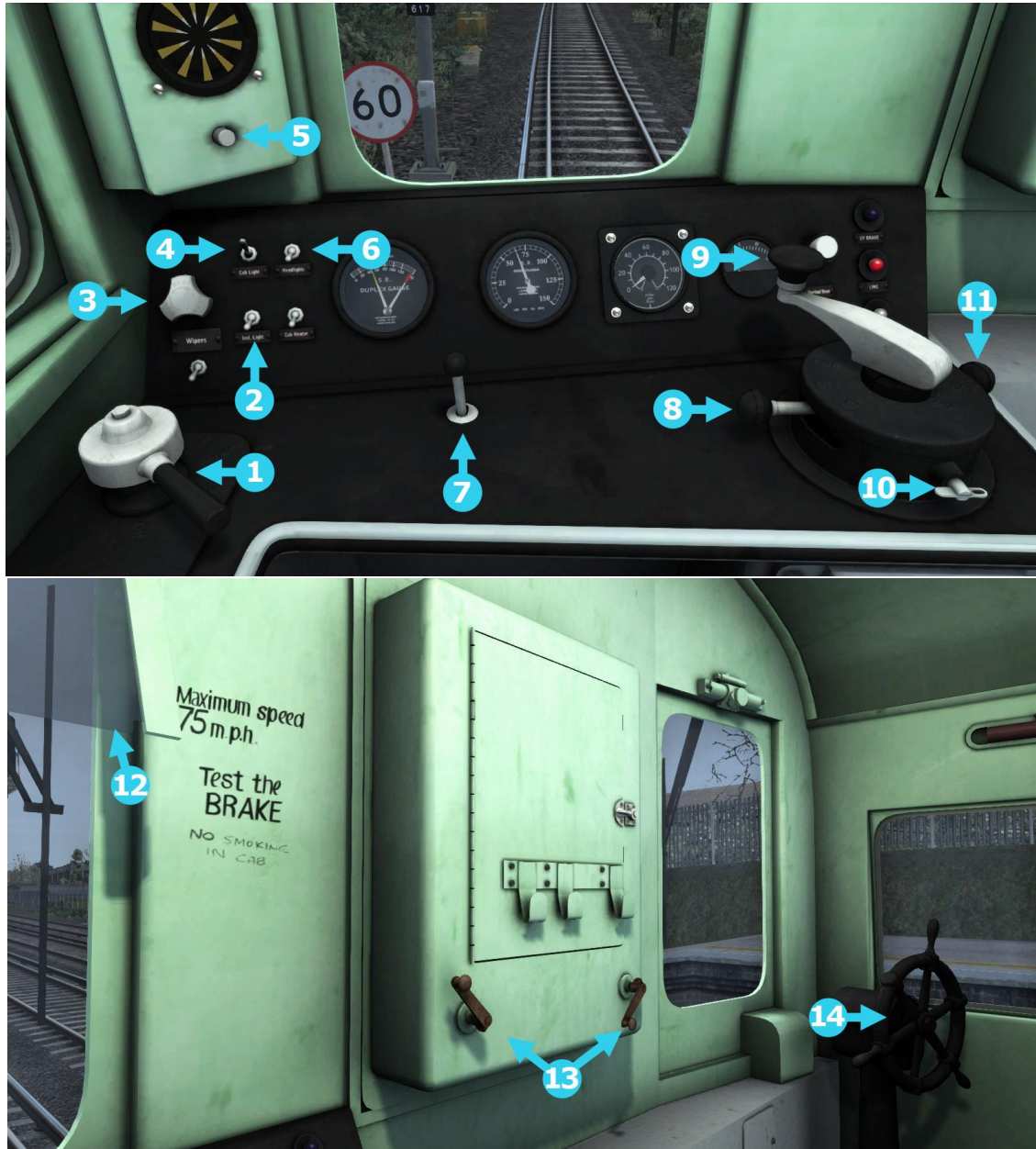
### 2.1 Class 415 4-EPB Network SouthEast








## 3 Driving the Class 415 4-EPB

### 3.1 Cab Controls and image

















- |   |                   |    |                 |
|---|-------------------|----|-----------------|
| 1 | Train Brake       | 8  | Reverser        |
| 2 | Instrument Lights | 9  | Regulator       |
| 3 | Wipers            | 10 | Master Key      |
| 4 | Cab Light         | 11 | Master Switch   |
| 5 | AWS Reset         | 12 | Sun Visor       |
| 6 | Headlights        | 13 | Headcode        |
| 7 | Horn              | 14 | Handbrake Wheel |

### 3.2 Locomotive Keyboard Controls

Key Equivalent	Action
	Increase or Decrease Throttle.
	Move reverser control Forward or Backward.
	Increase or Decrease Train Brake.

### 3.3 General Keyboard Controls

Key Equivalent	Action
	<b>Load/Unload.</b> Press once to load/unload passengers or freight.
	<b>Headlights.</b> Repeatedly pressing will cycle through headlight states where appropriate.
	<b>Windscreen Wipers.</b> Press once to switch on and again to switch off.
	<b>(Expert) Engine Stop/Start.</b> By default engines will already be running at the start of a scenario. Press this button to stop and then again to restart the engine.
	<b>(Expert) Alerter.</b> 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.
	<b>Cab Light.</b> Toggle the Cab light on and off.
	<b>Instrument Light.</b> Toggle the Instrument Light on and off.
	<b>Horn.</b> Sound the horn's high tone.
	<b>Horn.</b> Sound the horn's low tone.
	<b>Handbrake.</b> Toggle the train handbrake on and off.
	<b>Sun Visor.</b> Toggle or raise and lower the sun visors.
	<b>Destination.</b> Cycle the number board displays.
	
	<b>Couple manually.</b>

## 4 Scenarios

### 4.1 [415] Evening Rush

It's rush hour in the Big Smoke. Drive this stopping service from East Croydon to London Bridge.

**Duration:** 30 minutes

**Difficulty:** Easy

### 4.2 [415] Morning Commute to Victoria

Bad weather conditions and a tight timetable conspire to make this routine early morning passenger service from London Bridge to London Victoria, more demanding.

**Duration:** 30 minutes

**Difficulty:** Medium

### 4.3 [415] Take it to the Bridge

Starting at Clapham Junction run this 4-EPB stopping service to London Bridge.

**Duration:** 45 minutes

**Difficulty:** Medium

## 5 Acknowledgements

Dovetail Games would like to thank the following people for their contribution to the development of Class 415 4-EPB.

Beta Testing Team  
Ricardo Rivera

