



dovetail  
GAMES

# Class 402/ 2-HAL



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# 1 Background

## 1.1 Class 402 2-HAL Electric Multiple Unit

Introduced in 1939, the BR Class 402 2-HAL (2-car, Half Lavatory) is a classic southern "Slam-Door" third rail EMU which had a career spanning 32 years.

It was in service long enough to be given a BR TOPS designation of Class 402. Each 2-car set was comprised of one powered driving car and one unpowered trailer, both with compartment seating but only the trailer had a side corridor leading to a lavatory.

The class was built to work long-distance semi-fast services on the newly electrified lines from London Victoria to Maidstone and Gillingham (Kent).

## 1.2 Design & Specification

<b>Builder</b>	<b>Eastleigh Works</b>
<b>Locomotive Weight</b>	77 T
<b>Train Length</b>	129 ft 6 in (39.47 m)
<b>Train Width</b>	9 ft 2 in (2.79 m)
<b>Vehicle Power</b>	550 hp (410 kW)
<b>Top Speed</b>	75 mph (121 km/h)
<b>Brake Types</b>	Electro-pneumatic Air



## 2 Rolling Stock

### 2.1 Class 402 DMBT



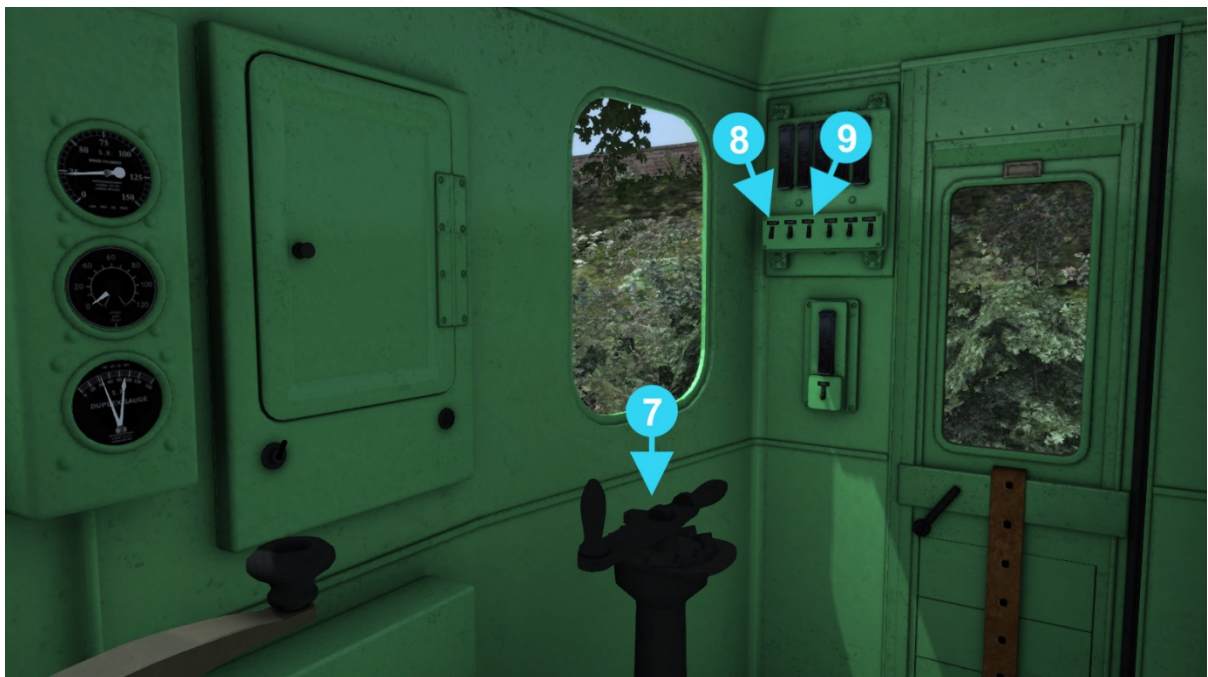
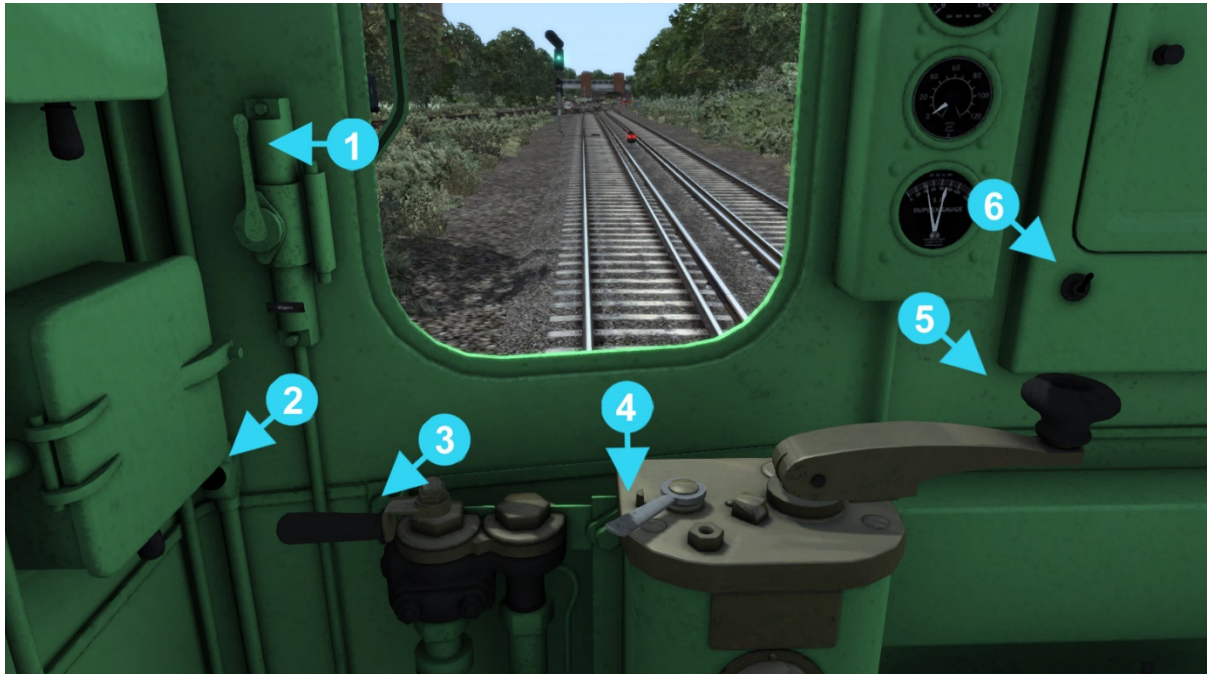


## 2.2 Class 402 DTC



## 3 Driving the Class 402

### 3.1 Cab Controls







1	Wipers	6	Headlights
2	Whistle (BR Green Version Only)	7	Handbrake Wheel
3	Train Brake	8	Instrument Lights
4	Reverser	9	Cab Lights
5	Regulator	10	Horn (BR Blue Version Only)

### 3.2 Locomotive Keyboard Controls

Key Equivalent	Action
D / A	Decrease or Increase Throttle.
S / W	Move Reverser Control Forward or Backward.
; / `	Decrease or Increase Train Brake.

### 3.3 General Keyboard Controls

Key Equivalent	Action
T	<b>Load/Unload.</b> Press to load/unload passengers or freight.
H	<b>Headlights.</b> Repeatedly pressing will cycle through headlight states as appropriate.
I	<b>Instrument Lights.</b> Press to toggle instrument lighting on and off.



L	<b>Cab Lighting.</b> Press to toggle the cab lighting on and off.
V	<b>Windscreen Wipers.</b> Press once to switch on and again to switch off.
Z	<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.
X	<b>(Expert) Sander.</b> Causes sand to be laid on the rails next to the wheels to assist with adhesion. Press once to apply sand and again to stop.
Space	<b>Horn.</b> Press to sound the horn.
/	<b>Handbrake On/Off.</b> This icon is displayed in the Coupling view.
Shift + Ctrl + C	Couple Manually.
Tab / Ctrl + Tab	Request authority to pass a signal at danger.

## 4 Scenarios

***\*\*For driving tutorials, please visit the Academy from the main TS2017 menu screen\*\****

### 4.1 [Class402] 1. Hals Odyssey

Welcome aboard the Class 402 (2-HAL). You'll be in charge of this historic unit starting off at Rainham and making the journey to Bromley South, where the service will conclude.

Duration: **50 Minutes**

Difficulty: **Easy**

### 4.2 [Class402] 2. A Journey with Hal

A journey down to Kent is on the agenda this morning. You'll be taking this Class 402 (2-HAL) on a passenger service to Rochester, beginning from London Victoria.

Duration: **50 Minutes**

Difficulty: **Easy**

### 4.3 [Class402] 3. Hal and The Smoke

It's time for a drive in the Capital! You'll be at the controls of this Class 402 (2-HAL) in its BR Green livery from Bromley South to London Victoria. You will be joined by the BR Blue unit at Herne Hill before completing the rest of the service to London Victoria.

Duration: **35 Minutes**

Difficulty: **Easy**

## 5 Acknowledgements

Dovetail Games would like to thank the following people for their contribution to the development of the Class 402 2-HAL.

Kevin

Beta Testing Team

