



dovetail  
GAMES

# Class 378 *Capitalstar*



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## 1 Background

### 1.1 Class 378 *Capitalstar*

The **Class 378 *Capitalstar*** is a type of electric multiple unit train, part of Bombardier Transportation's Electrostar family. These trains are operating on the London Overground network, for which they were specifically designed. The design is derived from the Class 376 trains used by Southeastern, featuring the same wider metro-style sliding pocket doors for more efficient boarding and alighting, which are faster and more reliable than plug doors. However they do not close flush with the body side, hence are less aerodynamic and do not provide as much heat insulation. Another significant difference from the Class 376 is the fully longitudinal seating similar to that used on London Underground rolling stock to give more standing room, suitable for the high-volume metro-style services on London Overground.

### 1.2 Design & Specification

<b>Builder</b>	Bombardier Transportation
<b>Unit Weight</b>	159.5 t
<b>Vehicle Length</b>	20.4 m
<b>Vehicle Width</b>	2.80 m
<b>Number Built</b>	57 trainsets
<b>Vehicle Power</b>	800 hp
<b>Top Speed</b>	75 mph

## 2 Rolling Stock

### 2.1 Class 378/1 DMSO



### 2.2 Class 378/2 DMSO





### 2.3 Class 378/1 MSO



### 2.4 Class 378/2 MSO





### 2.5 Class 378/1 PTSO



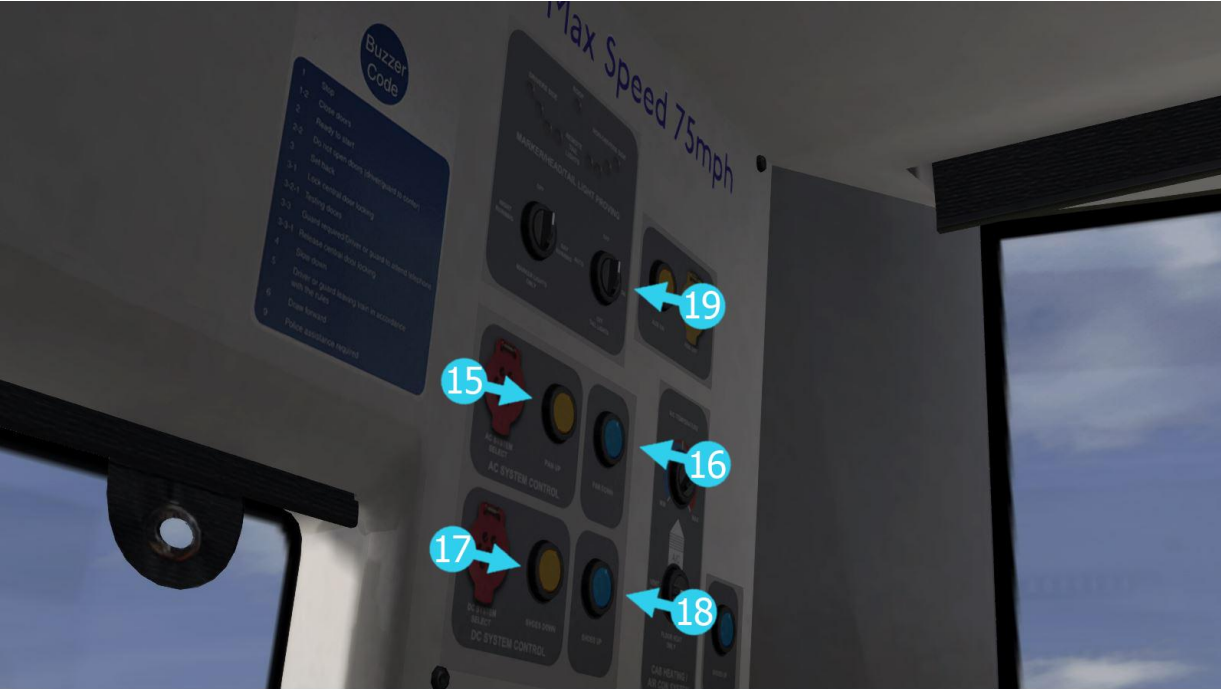
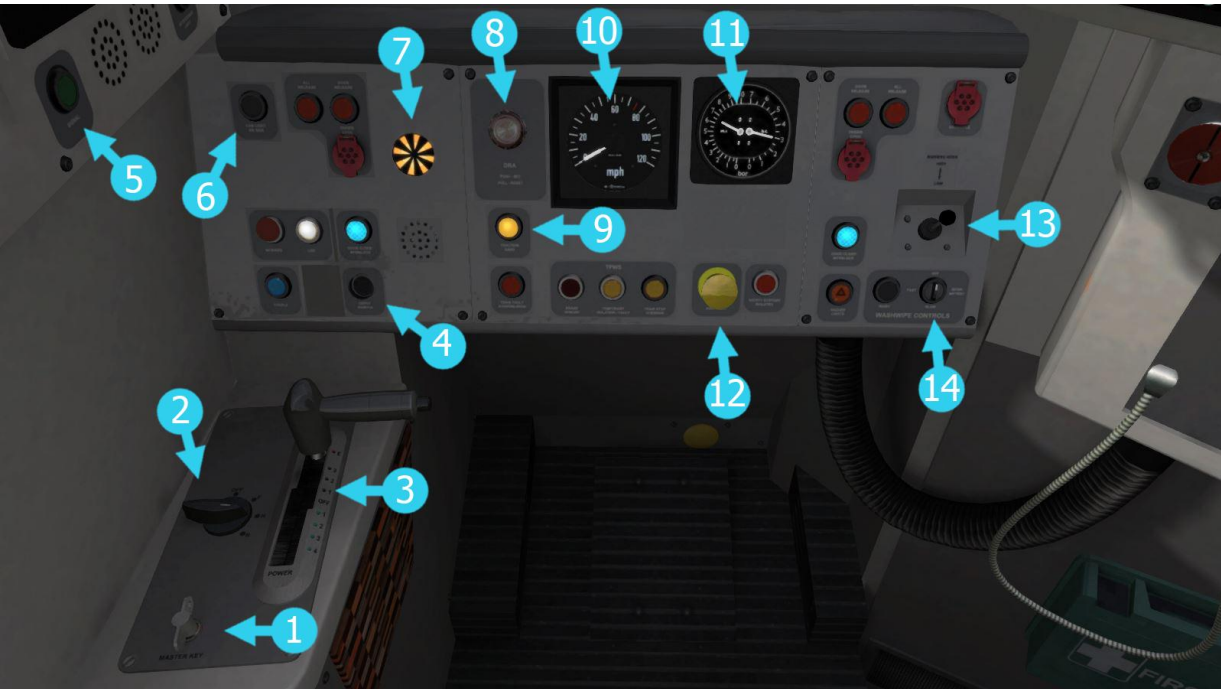
### 2.6 Class 378/2 PTSO







### 3 Driving the Class 378 Capitalstar

#### 3.1 Cab Controls











1	Master Key	11	Brake Gauge
2	Reverser	12	AWS Reset
3	Combined Train Brake and Throttle	13	Horn
4	Depot Whistle	14	Windscreen Wipers
5	Signal Button	15	Pantograph Up
6	Cab Light	16	Pantograph Down
7	AWS Sunflower	17	Shoes Down
8	DRA	18	Shoes Up
9	Manual Sander	19	Headlight/Taillight Switch
10	Speedometer		

### 3.2 Locomotive Keyboard Controls

Key Equivalent	Action
	Decrease or Increase Combined Train Brake and Throttle.
	Move Reverser Forward or Backward.

### 3.3 General Keyboard Controls

Key Equivalent	Action
	<b>Load/Unload</b> passengers or freight.
	<b>Lights.</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>(Expert) Manual 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.
	<b>Horn.</b> Sound the horn's low tone.
	<b>Horn.</b> Sound the horn's high tone.



**Key Equivalent**

**Action**



**Couple manually.**

## 4 Scenarios

### 4.1 [378] Afternoon Trip to West Croydon

**Description:**

A passenger run to West Croydon.

**Duration:** 35 Minutes

**Difficulty:** Easy

### 4.2 [378] Capital Quays

**Description:**

Drive a Class 378 on the over ground between Crystal Palace and Surrey Quays. A delayed 378 is in front of you, so keep an eye out for signals.

**Duration:** 20 Minutes

**Difficulty:** Medium

### 4.3 [378] Capitalstar to Clapham

**Description:**

Drive a 4-car Class 378 on a stopping passenger service to Clapham Junction.

**Duration:** 30 Minutes

**Difficulty:** Medium

### 4.4 [378] New Cross Run (*Bonus Scenario*)

**Description:**

Drive a Class 378 from New Cross to Surrey Quays.

**Duration:** 5 Minutes

**Difficulty:** Easy

## 5 Acknowledgements

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