

Norfolk Southern Dash 8-40C



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1 Background

1.1 Loco

The Dash 8-40C is a six axle diesel-electric locomotive built by GE Transportation Systems between 1987 and 1992, of which 581 were built. 75 of these units were ordered by Norfolk Southern, and an additional 14 were inherited after merging with Conrail. The Dash 8-40C was the first model of any locomotive series to be fitted with microprocessor-equipped control units. They were built with a traditional narrow short hood, but would later be produced with wide nose "safety" cabs for increased safety and comfort as the Dash 8-40CW.

1.2 Design & Specification

Builder	General Electric Transportation Systems
Locomotive Weight	124.466 tonnes
Vehicle Length	70 ft 8 in (21.54m)
Vehicle Width	10ft (3.05m)
Top Speed	68 MPH (109km/h)
Brake Types	Dynamic/Regenerative/Electropneumatic
Tractive Effort	4000hp (3,000kW)

2 Rolling Stock

2.1 Dash 8-40C



2.2 Coal Gondola



3 Driving the Dash 8-40C

3.1 Cab Controls



1	Train Brake (; / `)	2	Locomotive Brake ([/])
3	Horn (Spacebar)	4	Sander (X)
5	Bell (B)	6	Dynamic Brake (, / .)
7	Power Handle (A / D)	8	Reverser (W / S)
9	Wipers (V)	10	Headlights (H)
11	Cab Light (L)	12	Instrument Lights (I)
13	Engine Start / Stop (Z)		

4 Scenarios

4.1 Training: GE Dash 8-40C Simple Controls

Learn to drive the Dash 8-40C using simple controls.

Hi engineer, today you will be shown how to drive the Dash 8-40C using simple controls. In a moment, the controls will be explained and you will have the chance to put them into practice. Then, you will be shown things like coupling and uncoupling, camera views and braking. There is a lot to take in, but don't worry, all this will be explained at a comfortable pace.

- **Duration** **15 Minutes**
- **Difficulty** **Easy**

4.2 Training: GE Dash 8-40C Expert Controls

Learn to drive the Dash 8-40C using expert controls.

Hi engineer, today you will be shown how to drive the Dash 8-40C using expert controls. In a moment, the controls will be explained and you will have the chance to put them into practice. Then, you will be shown things like how the signals work, coupling and uncoupling, camera views and braking. There is a lot to take in, but don't worry, all this will be explained at a comfortable pace.

- **Duration** **15 Minutes**
- **Difficulty** **Easy**

4.3 [Dash 8] Long Haul for Alicia

Haul freshly loaded coal from Bailey Mine to Alicia.

MON VALLEY DISPATCHER: '8720, these loaded coal gondolas need taking to Alicia to be loaded onto the cargo ship.'

- **Duration** **45 Minutes**
- **Difficulty** **Hard**

4.4 [Dash 8] Delivery of Coal

Transport coal from West Brownsville to Alicia Transshipment Yard.

Starting at West Brownsville, you will drive NS train 17, tasked with transporting a cut of coal cars to the transshipment yard at Alicia.

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

5 Acknowledgements

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Beta Testing Team
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