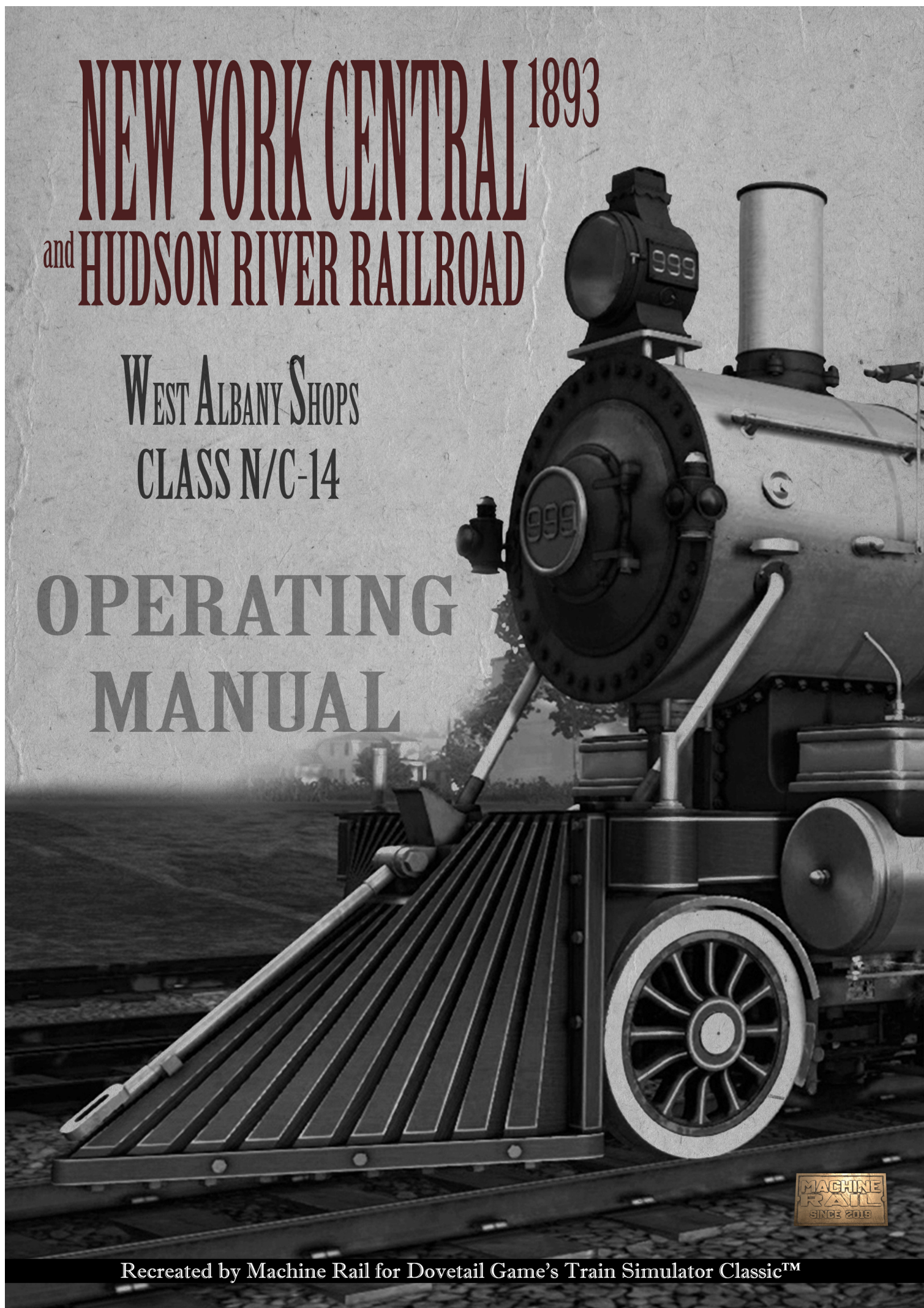


# NEW YORK CENTRAL 1893 and HUDSON RIVER RAILROAD

WEST ALBANY SHOPS  
CLASS N/C-14

## OPERATING MANUAL



Recreated by Machine Rail for Dovetail Game's Train Simulator Classic™





**N.Y.C. & H.R.R.R Empire State Express**  
**FOR TRAIN SIMULATOR CLASSIC**

# TECHNICAL SPECIFICATIONS

|                            |                          |
|----------------------------|--------------------------|
| <b>Builder</b>             | <b>West Albany Shops</b> |
| <b>Country</b>             | <b>USA</b>               |
| <b>Built Year</b>          | <b>1893</b>              |
| <b>Power Type</b>          | <b>Steam</b>             |
| <b>Fuel</b>                | <b>Coal</b>              |
| <b>Class</b>               | <b>N/C-14</b>            |
| <b>Wheel Arrangement</b>   | <b>4-4-0 "American"</b>  |
| <b>Valve Gear</b>          | <b>Stephenson</b>        |
| <b>Valve Type</b>          | <b>Piston Valves</b>     |
| <b>Boiler Pressure</b>     | <b>190-psi</b>           |
| <b>Number of Cylinders</b> | <b>Two-External</b>      |





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# KEYBOARD CONTROLS

## Regulator Sensitivity

|          |          |
|----------|----------|
| Increase | <b>A</b> |
| Decrease | <b>D</b> |

## Reverser

|          |          |
|----------|----------|
| Increase | <b>W</b> |
| Decrease | <b>S</b> |

## Train Brake

|          |          |
|----------|----------|
| Increase | <b>`</b> |
| Decrease | <b>;</b> |

## Whistle

|        |                  |
|--------|------------------|
| On/Off | <b>Space Bar</b> |
|--------|------------------|

## Blower

|          |                |
|----------|----------------|
| Increase | <b>N</b>       |
| Decrease | <b>Shift+N</b> |

## Cylinder Cocks

|            |          |
|------------|----------|
| Open/Close | <b>C</b> |
|------------|----------|

## Sander

|            |          |
|------------|----------|
| Open/Close | <b>X</b> |
|------------|----------|

## Steam Injectors

|            |                |
|------------|----------------|
| Open/Close | <b>I and O</b> |
|------------|----------------|

## Water Injectors

|            |                |
|------------|----------------|
| Open/Close | <b>L and K</b> |
|------------|----------------|

## Headlights

|        |                             |
|--------|-----------------------------|
| On/Off | <b>H "on" Shift+H "off"</b> |
|--------|-----------------------------|

## Front Cab Doors (left & right)

|            |                      |
|------------|----------------------|
| Open/Close | <b>P and Shift+P</b> |
|------------|----------------------|

## Side Cab Windows (left & right)

|            |                      |
|------------|----------------------|
| Open/Close | <b>J and Shift+J</b> |
|------------|----------------------|

## Top Cab Hatch Cover

|            |          |
|------------|----------|
| Open/Close | <b>V</b> |
|------------|----------|

## Smokebox Filter

|            |          |
|------------|----------|
| Open/Close | <b>Q</b> |
|------------|----------|

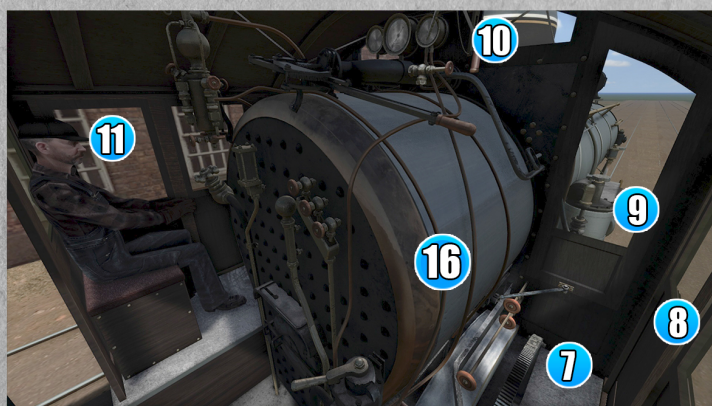
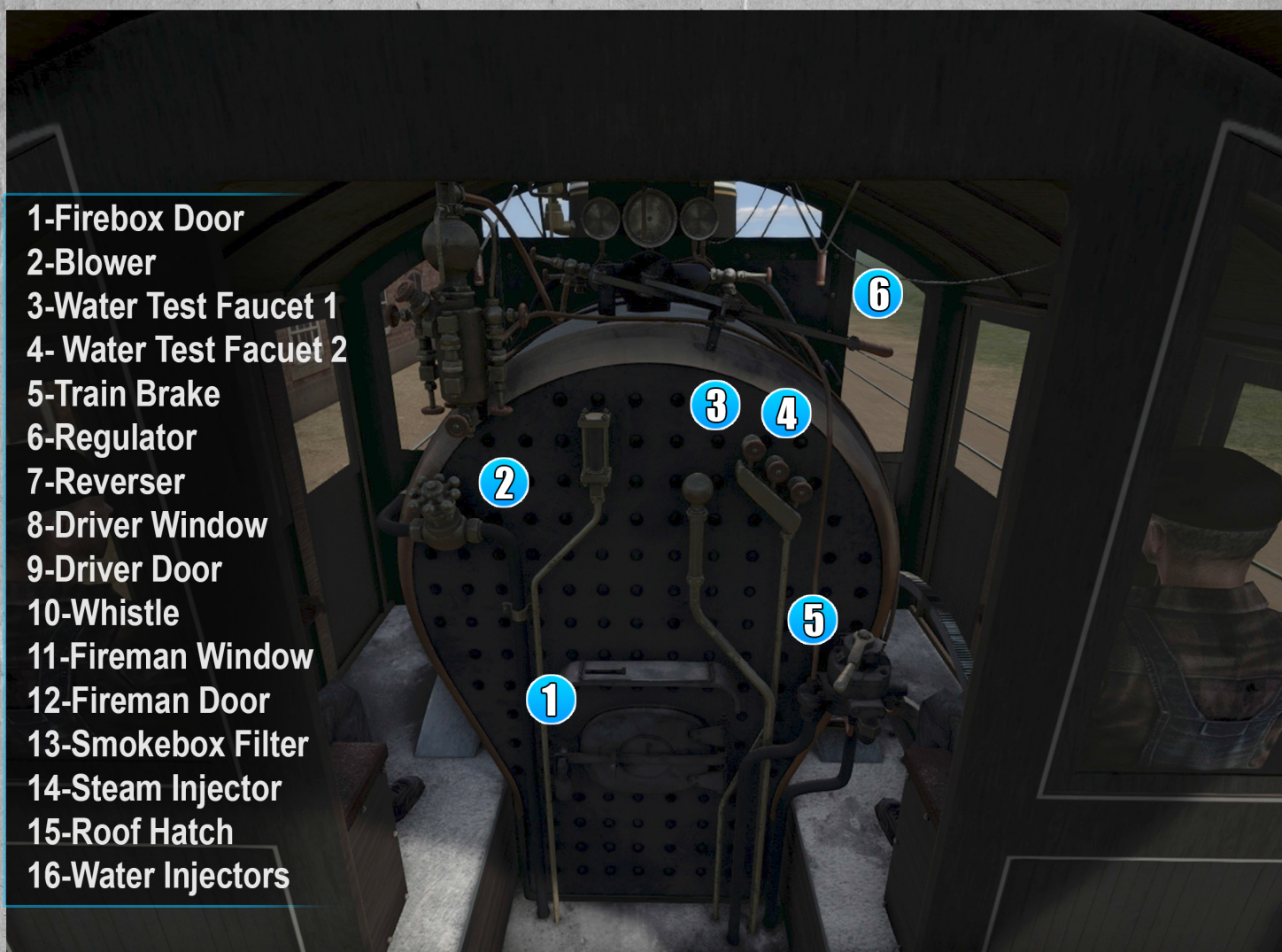




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# INTERACTIVE CONTROLS

- 1-Firebox Door
- 2-Blower
- 3-Water Test Faucet 1
- 4- Water Test Facuet 2
- 5-Train Brake
- 6-Regulator
- 7-Reverser
- 8-Driver Window
- 9-Driver Door
- 10-Whistle
- 11-Fireman Window
- 12-Fireman Door
- 13-Smokebox Filter
- 14-Steam Injector
- 15-Roof Hatch
- 16-Water Injectors







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# *Tools Used to Build this Model*

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## **Autodesk 3D Studio Max - 2017**

to create all 3D model geometry, textures and animations.

## **Autodesk Maya - 2023**

to create all 3D model geometry of all Empire State Express cars

## **Asset Editor**

for programming, special effects and functions, provided DTG's Train Simulator.

## **Magix Vegas Pro and FL Studio**

for creating, editing and enhancing sounds.

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Some conventional sounds were made using samples of  
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(<http://creativecommons.org/licenses/by/3.0/legalcode>).





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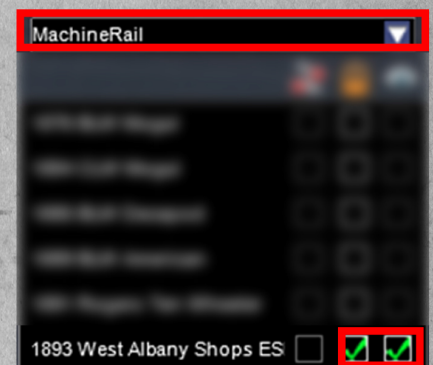
# Using the Loco in Scenario Editor

The locomotive can be selected by ticking the following in the object filter dialog

check boxes:

- **Developer: 'MachineRail'**
- **Product: '1893 West Albany Shops ESE'**

The names of all items in the product package begin with "MR".







## N.Y.C. & H.R.R.R Empire State Express FOR TRAIN SIMULATOR CLASSIC

# Cars Set

Check out the Empire State Express car set that came with locomotive #999, this is a complete package and all cars are highly detailed outside and inside.

*Parlor Car*



*Combine Car (closed)*



*Combine Car (opened)*



*Observatory Car*





## N.Y.C. & H.R.R.R Empire State Express FOR TRAIN SIMULATOR CLASSIC

# Internal Views and Cameras

Check out the Empire State Express car set that came with locomotive #999, the bundle includes cars that are highly detailed precision inside and outside.

To view the internal cameras scattered around the cars, make sure the consist is coupled with the locomotive. Then, just hit the "5" key on your upper numeric keypad. To change views from one car to another, hold CTRL+LEFT or RIGHT. All cars have more than one camera for you to have a pleasant experience.







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# Scenarios

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## Carrer Scenarios

The four career scenarios collectively represent an "end-to-end" eastbound excursion on the B&A route, where you will take control of this beautiful 19th century American passenger train on a fictional excursion activity in the year 1958. Exactly sixty years after locomotive No.999's record-breaking run:

### **Part 1:**

The locomotive and train are prepared at the West Springfield Terminal, proceed to the Springfield Union Station to load passengers and then begin the excursion east, arriving in Palmer for a stop at the station.

***Duration: ~ 45 minutes***

### **Part 2:**

The train makes its way from Palmer to Worcester with an intermediate stop at Brookfield station.

***Duration: ~ 50 minutes***

### **Part 3:**

Arriving in Worcester, the locomotive is switched off and goes to the terminal for maintenance, then returns to the train to anticipate the last part of the journey to Boston.

***Duration: ~ 25 minutes***

### **Part 4:**

The No. 999 and the train make the journey from Worcester to Boston South Station with an intermediate stop in Framingham

***Duration: ~ 60 minutes***





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# Special Thanks

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**Dovetail Games**

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Carlos A. Nicolucci

São Paulo, Brazil

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Recreated by Machine Rail for Dovetail Game's Train Simulator Classic™