



**SD45-2 / SD45-2 B**

# **SD45-2 for Train Simulator 2017 Owner's Manual**





SD45-2 / SD45-2 B

## Index

|  |    |
|--|----|
| A Little Bit of History.....             | 3  |
| Cab Controls.....                        | 4  |
| Included Career Scenarios.....           | 5  |
| How to Use This in Your Own Scnario..... | 8  |
| Included Rolling Stock.....              | 10 |



## A Little Bit of History

### EMD SD45-2

The EMD SD45-2 is a 6-axle diesel-electric locomotive built by General Motors Electro-Motive Division (EMD). EMD built 136 locomotives between 1972–1974, primarily for the Atchison, Topeka and Santa Fe Railway (ATSF). The SD45-2 was an improved version of the EMD SD45; the primary visual difference is the lack of flared radiators on the SD45-2.

Part of the EMD Dash 2 line, the SD45-2 was an upgraded SD45. Like the SD45, the SD45-2 had an EMD 645E3 20-cylinder engine producing 3,600 horsepower (2,680 kW). The main spotting difference between an SD45 and an SD45-2 was the long hood and the rear radiator. On the SD45 the long hood is flared whereas on the SD45-2 it is vertical and the rear cooling fans are more spread out on the top of the rear of the long hood. This unit used the same frame as the EMD SD40-2 and EMD SD38-2. The largest owner of the SD45-2 was the Atchison, Topeka, & Santa Fe with 90 units, the Clinchfield had 18 units, Seaboard Coast line had 15 units and Erie Lackawanna rostered 13 units.

A few cabless SD45-2Bs were built by Santa Fe from units undergoing remanufacturing. In all but one case (5510), the dynamic brakes were moved to the opposite end of the hood from the radiators; they were originally near the center of the hood. With no cab, these B-units are controlled from other locomotives.

In September 2015, Norfolk Southern revealed its SD45-2 numbered 1700 painted back to its Erie Lackawanna color scheme at Chattanooga, Tennessee. This is the second unit from an NS predecessor painted back into its original colors.





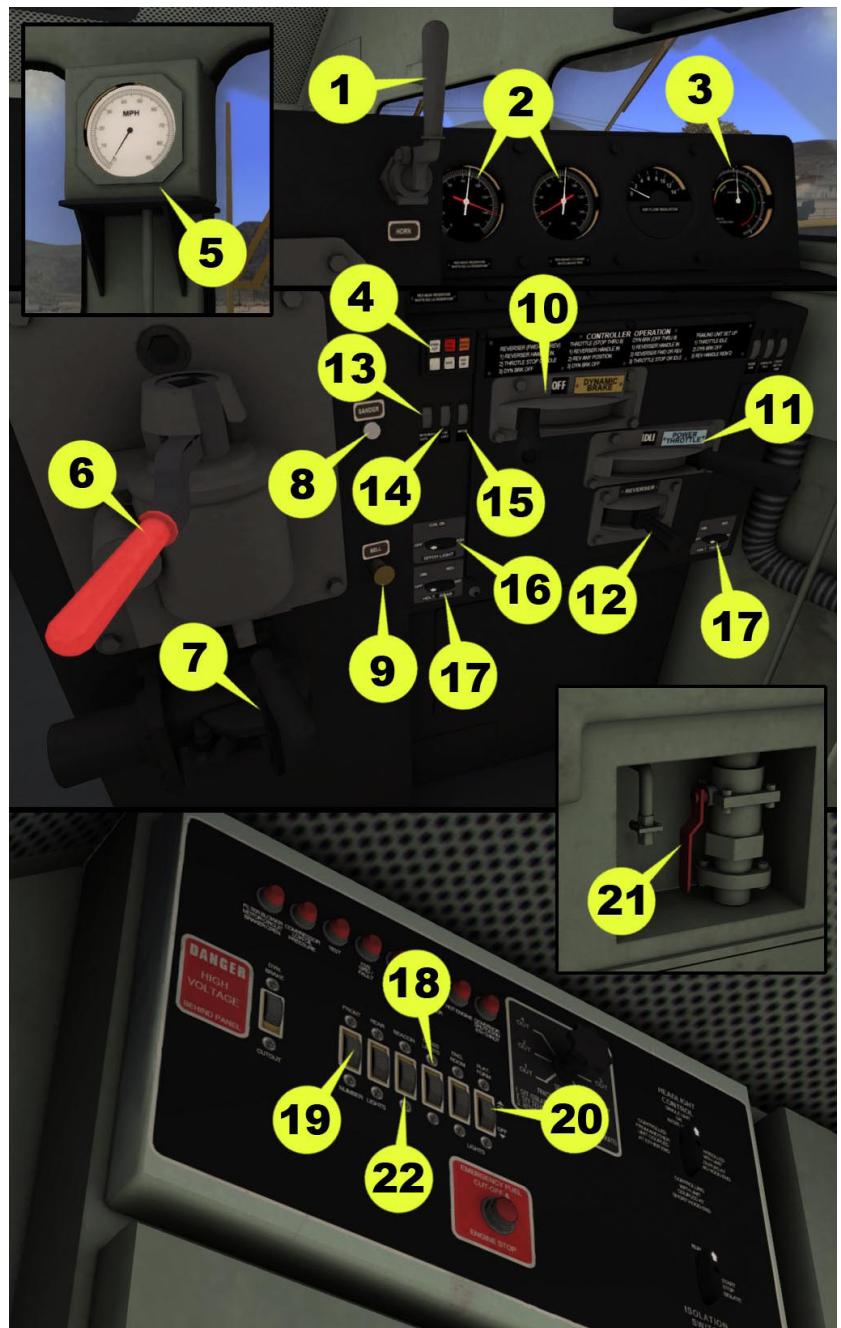
SD45-2 / SD45-2 B

## Cab Controls

Cab doors, windows and sunvisors can be moved with the mouse.

- 1) Horn
- 2) Air Gauges
- 3) Ammeter
- 4) Warning Lights
- 5) Speedometer
- 6) Train Brake
- 7) Independent Brake
- 8) Sander
- 9) Bell
- 10) Dynamic Brake
- 11) Throttle
- 12) Reverser
- 13) Instrument Lights
- 14) Cab Lights
- 15) Wipers
- 16) Ditchlights
- 17) Headlights
- 18) Class Lights
- 19) Numberboard Lights
- 20) Platform Lights
- 21) Emergency Brake Valve
- 22) Beacon

L: Cab Lights  
M: Front Mirrors  
Shift + M: Rear Mirrors





## Included Career Scenarios

### 1) Raining Over Cajon Pass.

It's early in the morning and you have been waiting for some time for a train to clear the track. Now you have the green light and permission to depart for San Bernardino, your destination. It's raining, so be careful.

Tasks:

- Go Via Lugo Track 2.
- Go Via Summit Track 2.
- Go Via Cajon South Track.
- Go Via Cajon Track 1.
- Go Via Devore Track 1.
- Go Via Ono Track 1 Warning.
- Go Via Ono Track 1.
- Go Via SanBar Track 1.
- Go Via SanBar Yard Gate 01.
- Stop at San Bernardino Yard 7.

### 2) A Short Train.

Today you must lead this short train to San Bernardino but there is another train in front of you, which is of high priority. It is possible that you may encounter some red signals on the way, so you must be very careful.

Tasks:

- Go Via Cajon Track 2.
- Go Via Devore Track 2.
- Go Via Ono Track 2.
- Go Via SanBar Track 3.
- Stop at San Bernardino Yard 9.

### 3) Coal To Barstow.

It's a warm summer morning at Victorville and you have a long bussy day ahead. Prepare yourself to load all the wagons in your consist with coal and then lead the train to Barstow.

Tasks:

- Load freight at Victorville Loader 1 x 10.
- Go Via East Victorville Siding 4.
- Go Via EastOro Track 2.
- Go Via Hodge Track 2.
- Go Via Len Track 2.
- Go Via Barstow Warning.
- Go Via Barstow Yard Gate 01.
- Stop at Barstow Yard 9.





#### 4) Collecting Goods.

Today your task is simple. You must collect some wagons from sidings and bring them back to Barstow. Later they will be coupled to a larger consist.

##### Tasks:

- Go Via Len Track 1.
- Go Via Hodge Track 2.
- Couple wagons at Helendale Siding 1.
- Go Via Hodge Track 2.
- Go Via Len Track 2.
- Couple wagons at Barstow Industry Siding.
- Stop at Barstow Yard 15.







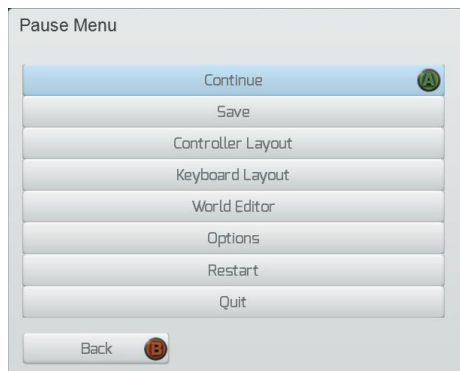
SD45-2 / SD45-2 B



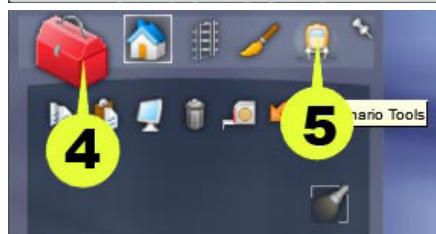




## How to Use This in Your Own Scenario



- 1) Open your desired route.
- 2) Press Esc key.
- 3) Click on World Editor from the pop up menu.



- 4) Go to the Tool Box panel.
- 5) Click on the Scenario Tools icon.
- 6) Click yes from the warning pop up.



- 7) Go to the Browser panel.
- 8) Click on the Object Set Filter icon.



- 9) Go to the Browser Panel at the right of the screen.
- 10) Click the roll out menu.
- 11) From the roll out menu click on DTM.

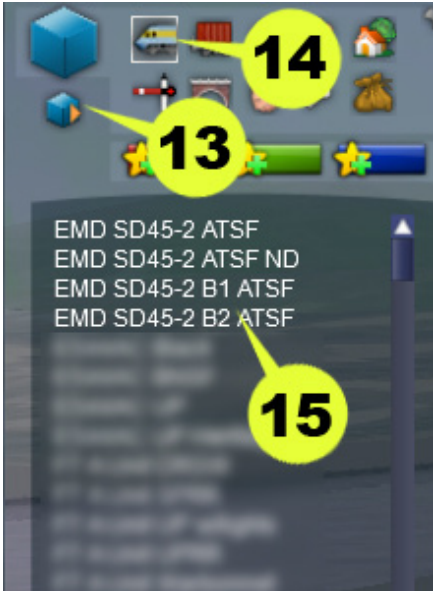


- 12) Click the SD45-2 ATSF checkbox.





**SD45-2 / SD45-2 B**



- 13) Return to the Browser panel.
- 14) Click on Engines & Tenders icon.
- 15) Click the Engine of your desire.
- 16) Click on the track to place it.



- 17) Return to the Tool Box panel.
- 18) Click the Driver icon.
- 19) Click on the engine.



- 20) Click the Play icon.
- 21) Save the changes in your scenario.
- 22) Drive your locomotive.



SD45-2 / SD45-2 B

## Included Rolling Stock



EMD SD45-2 ATSF



EMD SD45-2 ATSF ND (No Drivers)





## Included Rolling Stock



EMD SD45-2 ATSF B1



EMD SD45-2 ATSF B2





SD45-2 / SD45-2 B

## Included Rolling Stock



SD45-2 ATSF Boxcar 50ft 1.



SD45-2 ATSF Boxcar 50ft 1.





## Included Rolling Stock



SD45-2 ATSF Flatcar 53ft ( with 5 loads )



SD45-2 ATSF Hopper 70t Coal.





**SD45-2 / SD45-2 B**

## Included Rolling Stock



Caboose Ce1.





Santa Fe mark used under license

Thanks to:

Anthony Wood  
Ricardo Rivera  
Michael Stephan  
Martin Velozo  
Gary Dolzall  
Dovetail Team