



SD45T-2

SD45T-2 for Train Simulator 2017 Owner's Manual





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A Little Bit of History

EMD SD45T-2

The SD45T-2 is a 6-axle diesel-electric locomotive built by EMD for the Southern Pacific Railroad. Like the similar SD40T-2 it is nicknamed a “tunnel motor”. 247 were built from February 1972 to June 1975, including 84 for SP’s subsidiary Cotton Belt. From April 1986 to December 1989 about half were rebuilt and designated as SD45T-2R and 24 of the 126 rebuilds were built for Cotton Belt.

The SD45T-2 is an SD45-2 with cooling system modifications. The intake for radiator cooling air was moved to the walkway level and the cooling fans themselves were under the radiator cores, instead of above. Tunnel motors were built to perform best in tunnels in mountainous areas in the western United States. The air intake grills at the lower rear of the locomotives’ long hoods were intended to bring cool and clean air into the radiator section. The larger area of the intakes would also provide a less restrictive airflow.

Another tunnel motor, the SD40T-2, looks similar to the SD45T-2. One spotting difference is the longer hood on the SD45T-2 to accommodate the V20 prime mover vs. the V16 used on the SD40T-2. The SD45T-2’s cab is further forward on the frame, so there is less “front porch”. This mimics the differences between the SD45-2 and the SD40-2. Another spotting difference is the SD45T-2’s three fan access doors on each side above the cooling air intake, while the SD40T-2 has two.

EMD SD45T-2 vs SD40T-2 radiator fan motor access doors

Like the SD40T-2, some of SP’s SD45T-2 tunnel motors were obtained by Kansas City Southern Railway, Bessemer and Lake Erie Railroad, Duluth, Missabe and Iron Range Railway and by the Union Pacific Railroad when it merged the SP in 1996.

Some SD45T-2s were rebuilt and designated to SD45T-3, SD40T-3 and SD40-2T, in addition, some locomotive leasing companies own the SD45 tunnel motor locomotives. They are scattered all over the United States and are an increasingly rare sight.

As of January 2003, SD45T-2R SP No. 6819 (formerly SP 9193) was donated to the California State Railroad Museum in Sacramento.



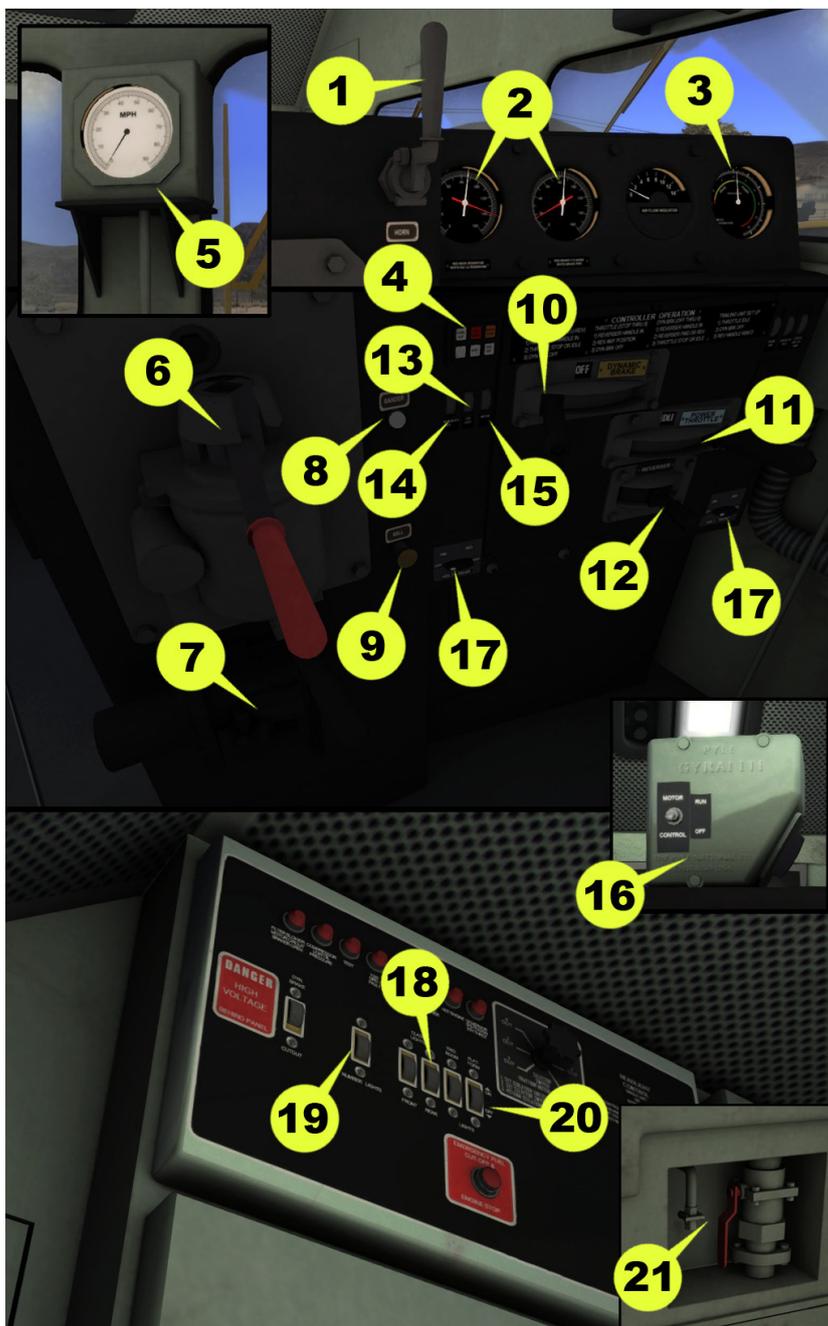
SD45T-2

Cab Controls

Cab doors and windows 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) Gyalrite
- 17) Headlights
- 18) Class Lights
- 19) Numberboard Lights
- 20) Platform Lights
- 21) Emergency Brake Valve

L: Cab Lights
 M: Front Mirrors





Included Career Scenarios

1) Getting Ready For Work

This morning your job is to do some switching and get the locomotives ready for their journey.

Tasks:

- Stop at Roseville Coaling Stage.
- Couple Locos at Roseville Loco Siding 02.
- Stop at Roseville Coaling Stage.
- Stop at Roseville Loco Siding 13.
- Refuel at Roseville Loco Refuelling 04 x 3.
- Stop at Roseville Loco Siding 13.
- Stop at Roseville Reverse Point.
- Couple Wagons at Roseville Departure Yard 2 - 15A.

2) The Fast And The Fruit Part 1.

Today you will drive the Pacific Fruit Express to Colfax. There will be a little stop at Bowman.

Tasks:

- Go Via Rocklin Track 2.
- Go Via Tunnel 17 Track 2.
- Go Via Newcastle Track 1.
- Go Via Tunnel 18 Track 1.
- Go Via Bowman Approach.
- Stop at Bowman Track 1 Loop.

3) The Fast And The Fruit Part 2.

After this short stop at Bowman you will continue the trip to Colfax. Wait for the green light.

Tasks:

- Go Via Clipper Gap Track 1.
- Go Via Heather Glen Track 1.
- Go Via Weimar Track 1.
- Stop at Colfax Loop Track 1.



4) Stack to Sparks.

The work today is easy. Take a stack train to Sparks. The way is clear so you should have no problems at all. Have a nice trip.

Tasks:

- Go Via Truckee East Junction B.
- Go Via Glenshire Track 1
- Go Via Boca Track W1.
- Go Via Floriston Track 1.
- Go Via Verdi Track 1.
- Go Via Mogal Track 1.
- Go Via Lawton Track 1.
- Go Via Sparks Track W1.
- Stop at Sparks Arrival 01.

5) Night Manifest.

The snow is falling in this cold night and you must drive a train in a short trip. This shouldn't be hard but be careful anyway. Good luck.

Tasks:

- Go Via Truckee Track 2.
- Go Via Tunnel 42 Track 2.
- Go Via Shed 47 Track 2.
- Go Via Tunnel 41 West.
- Go Via Tunnel 41 East.
- Stop at Norden Track 2 B.



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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.



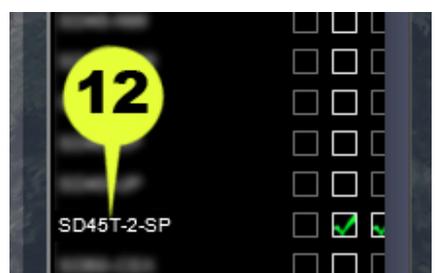
- 4) Go to the Tool Box panel.
- 5) Click on the Scenario Tools icon.
- 6) Click yes from the warning pop up.



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



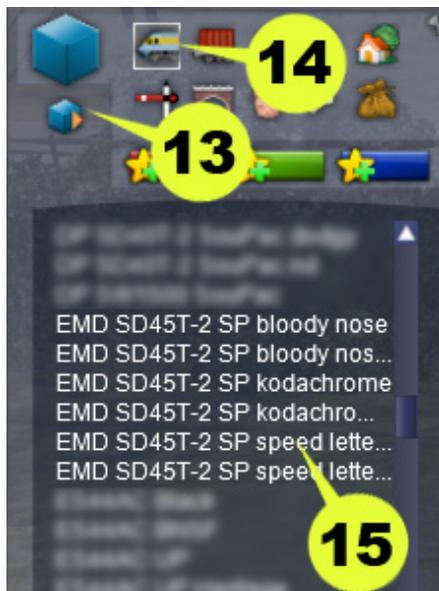
- 9) Go to the Browser Panel at the right of the screen.
- 10) Click the roll out menu.
- 11) From the roll out menu click on DTM.



- 12) Click the SD45T-2 SP checkbox.



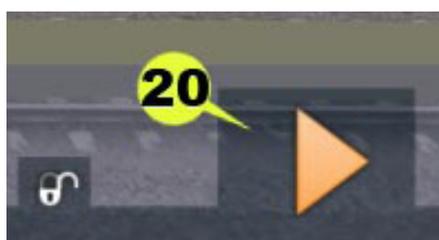
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- 13) Return to the Browser panel.
- 14) Click on Engines & Tenders icon.
- 15) Click the Engine of your desire.
- 16) Click on the track to place it.



- 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.



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Included Rolling Stock



EMD SD45T-2 SP bloody nose



EMD SD45T-2 SP bloody nose ND (No Drivers)



Included Rolling Stock



EMD SD45T-2 SP speed lettering



EMD SD45T-2 SP speed lettering ND (No Drivers)



Included Rolling Stock



EMD SD45T-2 SP kodachrome



EMD SD45T-2 SP kodachrome ND (No Drivers)



SD45T-2

Included Rolling Stock



50 ft Boxcar.



PFE R-70-12.



SD45T-2

Included Rolling Stock



Gunderson Twin Stack (five cars set. Unloaded, loaded with one and two containers)



C 40-7 Caboose.



Southern Pacific mark used under license

Thanks to:

Anthony Wood
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Dovetail Team