



GM Aerotrain for Train Simulator 2017 Owner's Manual





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A Little Bit of History

GM's Aerotrain.

The Aerotrain was a streamlined trainset introduced by General Motors Electro-Motive Division in the mid-1950s. Like all of GM's body designs of this mid-century era, this train was first brought to life in GM's Styling Section. Chuck Jordan was in charge of designing the Aerotrain as Chief Designer of Special Projects. It utilized the experimental EMD LWT12 locomotive (U.S. Patent D177,814), coupled to a set of modified GM Truck & Coach Division 40-seat intercity highway bus bodies (U.S. Patent D179,006). The cars each rode on two axles with an air suspension system, which was intended to give a smooth ride, but had the opposite effect.

The two Aerotrain demonstrator sets logged over 600,000 miles (970,000 km) and saw service on:

the Atchison, Topeka and Santa Fe Railway;
the New York Central Railroad;
the Pennsylvania Railroad; and
the Union Pacific Railroad.

Starting in February 1956 the Pennsylvania Railroad ran the Pennsy Aerotrain between New York City and Pittsburgh, Pennsylvania, leaving New York at 7:55 a.m.; the schedule was 7 hours 30 minutes each way. From June 1956 to June 1957 it ran between Philadelphia and Pittsburgh.

In 1956 Aerotrain No. 2 was leased as a demonstrator to the New York Central and ran between Cleveland and Chicago.

In March 1956 the Aerotrain made experimental runs for the Atchison, Topeka and Santa Fe Railway in California as a San Diegan between Los Angeles and San Diego. Its use ended because the trainset had to be turned after each trip and it needed helper locomotives on the Sorrento Grade north of San Diego.

Starting December 1956 Union Pacific ran the ex-New York Central Aerotrain as the City of Las Vegas between Los Angeles and Las Vegas. The train was eventually relegated to Chicago commuter service on the Chicago, Rock Island and Pacific Railroad.

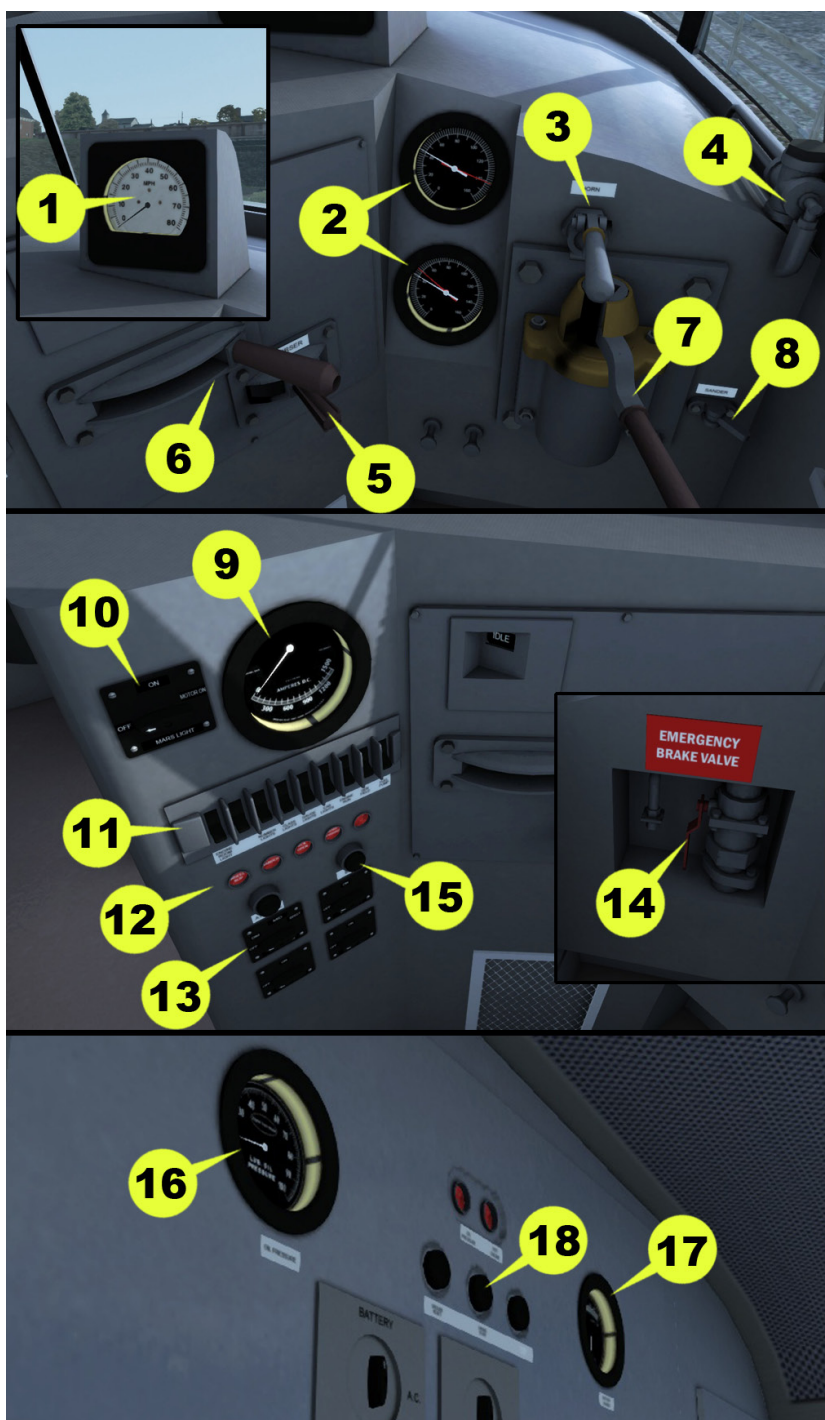
GM's "lightweight with a heavyweight future" was introduced at a time when passenger train revenues were declining due to competition from airlines and private automobiles. Though it featured a streamlined design, the Aerotrain failed to capture the public's imagination. The cars, based on GM's bus designs and using an air cushioning system, were rough riding and uncomfortable. The design of the locomotive section made routine maintenance difficult and it was underpowered. Both trainsets were retired in 1966 after a decade of use. The Museum of Transportation in St. Louis, Missouri, and the National Railroad Museum in Green Bay, Wisconsin, each have one of the locomotives and two of the cars.

Cab Controls

Windows can be moved with the mouse.

- 1) Speed Recorder
- 2) Air Gauges
- 3) Horn
- 4) Wiper Valve
- 5) Reverser
- 6) Throttle
- 7) Train Brake
- 8) Sander
- 9) Ammeter
- 10) Mars Light
- 11) General Switches
- 12) Warning Lights
- 13) Headlights
- 14) Emergency Brake Valve
- 15) Bell
- 16) Lub. Oil Pressure
- 17) Battery Charge
- 18) Engine Start/Stop

L: Cab Lights



Included Career Scenarios

01. Aerotrain to Pittsburg Part 1.

EMD have just delivered the first two consists of their brand new lightweight train, the Aerotrain. PRR will now start running this train and see how it behaves.

Tasks:

- Pick Up Passengers at Altoona Wwd Platform.
- Go Via ALTO No4 Wwd Psgr.
- Go Via SLOPE No4 Wwd Psgr.
- Go Via MG No4 Wwd Psgr.
- Go Via AR No4 Wwd Psgr.
- Go Via MO No4 Wwd Psgr.
- Stop at Cresson Wwd Platform.

02. Aerotrain to Pittsburg Part 2.

EMD have just delivered the first two consists of their brand new lightweight train, the Aerotrain. PRR will now start running this train and see how it behaves.

Tasks:

- Pick Up Passengers at Cresson Wwd Platform.
- Go Via NY No3 Wwd Psgr.
- Go Via SO No3 Wwd Psgr.
- Go Via AO No3 Wwd Psgr.
- Go Via C No3 Wwd Psgr.
- Stop at Johnstown Wwd Platform.

03. Aerotrain to Philadelphia Part 1.

This is the last trip of the Aerotrain. After a year of tests its performance has been poor. After this trip the train will be sent to the NYC railroad for their own tests.

Tasks:

- Pick Up Passengers at Johnstown Ewd Platform.
- Go Via C No2 Ewd Psgr.
- Go Via AO No2 Ewd Psgr.
- Go Via SO No2 Ewd Psgr.
- Go Via NY No2 Ewd Psgr.
- Stop at Cresson Ewd Platform.



04. Aerotrain to Philadelphia Part 2.

This is the last trip of the Aerotrain. After a year of tests its performance has been poor. After this trip the train will be sent to the NYC railroad for their own tests.

Tasks:

- Pick Up Passengers at Cresson Ewd Platform.
- Go Via MO No2 Ewd Psgr.
- Go Via New Portage Tunnel 2.
- Go Via AR No2 Ewd Psgr.
- Go Via MG No2 Ewd Psgr.
- Go Via SLOPE No3 Ewd Psgr.
- Go ALTO No3 Ewd Psgr.
- Stop at Altoona Ewd Platform.



GM AEROTRAIN



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.



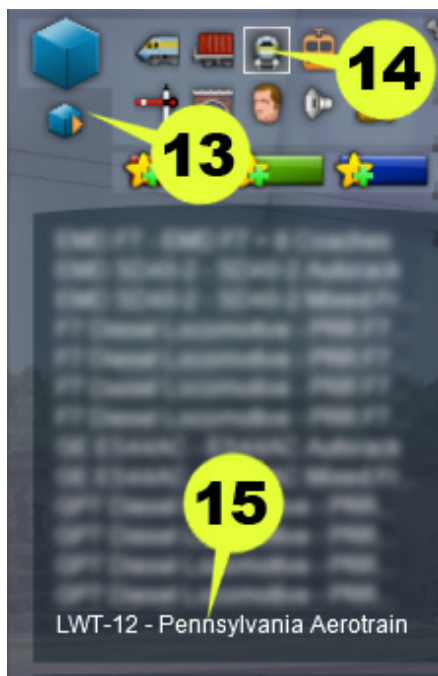
- 7) Go to the Browser panel.
- 8) Click on the Object Set Filter icon.



- 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.



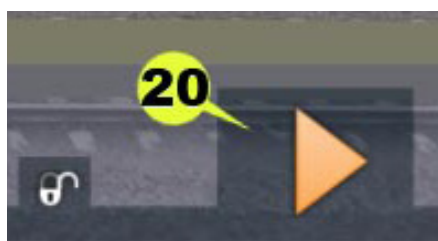
- 12) Click the GM Aerotrain Pack01 checkbox.



- 13) Return to the Browser panel.
- 14) Click on Consists icon.
- 15) Click the LWT-12- Pennsylvania Aerotrain.
- 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 to your scenario.
- 22) Drive your locomotive.



Included Rolling Stock



EMD LWT-12 PRR



EMD LWT-12 Unbranded



Included Rolling Stock



Aerotrain Coach PRR



Aerotrain Coach Observation PRR



PRR mark used under license

Thanks to:

Anthony Wood
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Digital Train Model