

Subway Operations Manual 2009

The first underground line opened on October 27, 1904, almost 35 years after... Although extra infrastructure such as cameras and mirrors might require additional investment, one-person operation is usually faster and cheaper to implement than automatic train operation, requiring a smaller investment in, for example, platform intruder detection systems and track... By the late 1870s the Manhattan Railway Company was an elevated railway company in Manhattan and the Bronx, New York City, United States. It operated four lines: the Second Avenue Line, Third Avenue Line, Sixth Avenue Line, and Ninth Avenue Line. Since April 2025, the MTA's official diagram has been inspired by a design by Massimo Vignelli. The MTA previously used a Vignelli-inspired map from 1972 to 1979, when that map was replaced by a design from Michael Hertz Associates, commissioned by John Tauranac and the MTA Subway Map Committee. There are also special maps for weekend service changes, and the MTA has previously...

R32 (New York City Subway car) The R32 contract was divided into two subcontracts of 300 cars each: R32 (cars 3350–3649) and R32A (cars 3650–3949); the former was paid by the city's capital budget and the latter was paid through a revenue bond. A total of 600 R32s were built, numbered The R32 was a New York City Subway car model built by the Budd Company from 1964 to 1965 for the IND/BMT B Division. The R32 was a New York City Subway car model built by the Budd Company from 1964 to 1965 for the IND/BMT B Division. All were arranged as married pairs. A total of 600 R32s were built, numbered 3350–3949, though some cars were re-numbered

Toronto subway As of December 2024, three new lines are under construction: two light rail lines (one running mostly underground, the other running mostly at-grade) and one heavy rail line (running both underground and on elevated guideways). The Toronto subway is a rapid transit system serving Toronto and the neighbouring city of Vaughan in Ontario, Canada, operated by the Toronto Transit Commission The Toronto subway is a rapid transit system serving Toronto and the neighbouring city of Vaughan in Ontario, Canada, operated by the Toronto Transit Commission (TTC). The subway system is a rail network consisting of three heavy-capacity rail lines operating predominantly underground

The L operates 24 hours daily between Eighth Avenue in Chelsea, Manhattan, and Rockaway Parkway in Canarsie, Brooklyn, making all stops along the full route. It also briefly enters Queens at Halsey Street, serving the neighborhood of Ridgewood. It is the first New York City Subway service to be automated using communications-based train control. 65d4093a73 The system maintains two separate fleets of passenger cars: one for the A Division (numbered) routes, the other for the B Division (lettered) routes. All A Division equipment is approximately 8 feet 9 inches (2.67 m) wide and 51 feet (15.54 m) long. B Division cars, on the other hand, are about 10 feet (3.05 m) wide and either 60 feet 6 inches (18.44 m) or 75 feet 6 inches (23.01 m) long. The A Division and B Division trains operate only in their own division; operating in the other division is not allowed. All rolling stock, in both the A and B Divisions, run on the same 4 foot 8.5 inches (1,435 mm... 65d4093a73 In 1954, the TTC opened Canada's first underground rail line, then known as the "Yonge subway", under Yonge Street between Union Station and Eglinton Avenue with 12 stations. As of 2024, the network encompasses 70 stations and 70.1 kilometres (43.6 mi) of route. In 2024, the system had... 65d4093a73

One-person operation ending of the gradual implementation of one-person operations that started in 1996 with parts of the subway's shortest line, the Blue Line, continued with the One-person operation (OPO), also known as driver-only operation (DOO), one-man operation (OMO), single person train operation (SPTO), or one-person train operation (OPTO), similarly to driver-controlled operation, is operation of a train, bus, or tram by the driver alone, without a conductor 65d4093a73

New York City Subway rolling stock As of September 2024[update], the The New York City Subway is a large rapid transit system and has a large fleet of electric multiple unit rolling stock. The New York City Subway is a large rapid transit system and has a large fleet of electric multiple unit rolling stock. As of September 2024, the New York City Subway has 6712 cars on the roster 65d4093a73

L (New York City Subway service) Its route emblem, or "bullet", is colored medium gray since it serves the BMT Canarsie Line. Local is a rapid transit service in the B Division of the New York City Subway. Its route emblem, or "bullet", is colored medium gray since it serves the The L 14th Street-Canarsie Local is a rapid transit service in the B Division of the New York City Subway 65d4093a73

There have been two different schemes of signaling in the system. The current scheme is used on all A Division and B Division lines, originally built to the Brooklyn-Manhattan Transit Corporation (BMT) and Independent... 65d4093a73

The L commenced its current route and service pattern upon completion of the Canarsie Line in 1928. Express trains formerly ran along the L's trackage in central Brooklyn, running along the BMT Fulton Street Line in eastern Brooklyn, but were discontinued... 65d4093a73

New York City Subway map transit maps for the New York City Subway have been designed since the subway's inception in 1904. Since then, the official map has undergone several complete revisions, with intervening periods of comparative stability. Because the subway was originally built by three separate Many transit maps for the New York City Subway have been designed since the subway's inception in 1904. Because the subway was originally built by three separate companies, an official map for all subway lines was not created until 1940, when the three companies were consolidated under a single operator 65d4093a73

On one-person operated passenger trains, the driver must be able to see the whole train to make sure that all the doors are safe for departure. On curved platforms a CCTV system, mirror or station dispatch staff are required. 65d4093a73 The R32s were the first mass-produced stainless steel cars built for the New York City Subway. A ceremonial introduction trip for the new R32 "Brightliners" cars was held on September 9, 1964. Various modifications were made over the years to the R32 fleet. In the late 1980s, all of the R32 cars were rebuilt, with ten cars being rebuilt by General... 65d4093a73

History of the New York City Subway Its operator is the New York City Transit Authority (NYCTA), which is controlled by the Metropolitan Transportation Authority (MTA) of New York. 66 million passengers used the system daily, making it the busiest rapid transit system in the United States and the seventh busiest in the world. In 2016, an average of 5. The New York City Subway is a rapid transit system that serves four of the five boroughs of New York City, New York: the Bronx, Brooklyn, Manhattan, and The New York City Subway is a rapid transit system that serves four of the five boroughs of New York City, New York: the Bronx, Brooklyn, Manhattan, and Queens 65d4093a73

List of semi-automatic train systems ATO previously This is a list of current semi-automatic train systems capable of GoA2 as according to the Grade of Automation classifications specified by the standard IEC 62290-1. Canceled automated train systems are in the list of defunct automated train systems. the Kobe Municipal Subway Seishin-Yamate Line. For the systems capable of GoA3 and higher, see the list of driverless train systems. These are explained diagrammatically by the UITP. ATO trialled from October 1967 until February 1968; trains now operated in manual mode 65d4093a73

Signaling of the New York City Subway Many portions of the signaling system were installed between the 1930s and 1960s. As of 2022, the system currently uses automatic block signaling, with fixed wayside signals and automatic train stops. Because of the age of the subway system, many replacement parts are unavailable from signaling suppliers and must be custom-built for the New York City Transit Authority, which operates the subway. Most trains on the New York City Subway are manually operated. As of 2022[update], the system currently uses automatic block signaling, with fixed wayside Most trains on the New York City Subway are manually operated. Additionally, some subway lines have reached their train capacity limits and cannot operate extra trains in the current system

Fukuoka Subway 1000 series The Fukuoka Subway 1000 series (福岡市営1000系) is an electric multiple unit (EMU) train type operated by the Fukuoka City Transportation Bureau on the Hakozaki The Fukuoka Subway 1000 series (福岡市営1000系) is an electric multiple unit (EMU) train type operated by the Fukuoka City Transportation Bureau on the Hakozaki Line and Kūkō Line in Fukuoka, Japan. The trains also inter-run to/from the Chikuhō Line, operated by Kyushu Railway Company (JR Kyushu)

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