

Yamanote Line



Introducing

The Yamanote Line runs in a circle around the center of Tokyo for 34.5 km, taking 59 minutes, and is one of the major lines in the Tokyo metropolitan area, connecting huge terminal stations with world-class passengers. It runs parallel to the Keihin Tohoku Line between Shinagawa and Tabata stations, and the Saikyo Line and Shonan Shinjuku Line between Ikebukuro and Osaki stations.

Since most of the line runs parallel to other lines, many different types of rolling stock can be seen. The Yamanote Line has few level crossings, with only one crossing, the "Daini-Nakazato Level Crossing" between Tabata and Komagome Stations, the only crossing on the Yamanote Line.

The line is also characterized by its high frequency of service, with trains running every 3 to 4 minutes during the morning rush hour on weekdays, and every 5 minutes during the daytime on weekdays. Digital ATC is used as the security system.

Key data

- Line length: 34.5 km

- Number of stations: 29
- Safety system: [D-ATC](#)
- Train model: [E235-0 series](#) (11 cars)
- Max speed: 90 km/h
- Routes:
 - Ōsaki⇄Ōsaki (1208G): "Local" - 29 stations - 34.5 km
 - Ōsaki⇄Ōsaki (876G): "Local" - 29 stations - 34.5 km
- In-train announcements: Yes
- Driver announcement ([pointing-and-calling](#)): No

Please note that, since the safety system is the [D-ATC](#), the warning lights must be ignored and the Max Speed / Next Limit indicators are empty.

TASC - Train Automatic Stopping Controller

As this line is equipped with landing doors, the margin of error for stopping is +/- 35cm, whatever the setting. However, as TASC data is available, it is possible to use TASC and the slow advance/inching function to make an automatic stop.

To do this, press "T" at the very beginning to activate TASC (deactivated by default). Then, when you arrive at the station, all you need to do is be at ~50km/h or less when you get within ~150m of the stop for TASC to activate and make the stop automatically.

If, for any reason, the train stops outside this limit, you can activate slow advance/inching using "I" key to advance/reverse at 2km/h max. to position yourself correctly. Once you're within the margin, TASC will take over to stop the train.

Console detail

Apart from the pocket watch and the door-closing indicator in the center of the console, there are 2 displays.



The first display shows in the bottom area:

- Brake level, with emergency brake indicator "□□".
- Brake cylinder pressure (black arrow) and main air reservoir pressure (red arrow). Note that if this falls below the red zone (780kPa), the compressor starts up.
- Speed dial, with limit indicator (green arrow) and the "pattern approach" (□□□□□) indicator.

The upper part contains the electrical voltages and various indicators:

<ul style="list-style-type: none">• Top-left:<ul style="list-style-type: none">◦ 3-phase (□□)◦ Emergency short-circuit (□□□□)◦ Snow resistant brakes (□□□□□)◦ Safety Brakes (□□□□)◦ Cruise control (□□)◦ Parking brakes (□□□□□)◦ Inching in progress (□□□□□□□)	<ul style="list-style-type: none">• Top-right :<ul style="list-style-type: none">◦ Digital ATC (□□□□ATC)◦ ATC◦ Off (□)◦ Pattern reduction (□□□□□)◦ Emergency operation (□□□□)
<ul style="list-style-type: none">• Bottom-left, first line :<ul style="list-style-type: none">◦ TASC power supply (TASC □□)◦ TASC pattern (TASC □□□□)◦ TASC brakes (TASC □□□□)◦ TASC off (TASC □)◦ TASC failure (TASC □□)• Second line :<ul style="list-style-type: none">◦ Home position (□□□)◦ Vehicle doors closed (□□□□□□)◦ Platform doors closed (□□□□□□□)◦ Platform doors linkage (□□□□□□□)◦ Platform doors separation (□□□□□□□)	<ul style="list-style-type: none">• Bottom-right :<ul style="list-style-type: none">◦ ATC normal (ATC□□)◦ ATC emergency (ATC□□)◦ Train stop operation (□□□□□□)◦ ATC power supply (ATC□□)◦ ATC release (ATC□□)

Consult the [MON/TIMS/INTEROS screen](#) page for more details about the INTEROS screen.

Movie

<https://www.youtube.com/embed/alsshzKhzF4?si=krBAetw1-SJu0EbZ>

Useful links

Wikipedia: https://en.wikipedia.org/wiki/Yamanote_Line

Driver's guide:

https://docs.google.com/spreadsheets/d/11Ezlt2dOjwZ_V4Ec4HMRwgWNXQFLfG9sTFj_pgI0Dko/edit#gid=119399473

Timetables (in japanese):

- Ōsaki⇄Ōsaki (1208G) :
https://docs.google.com/spreadsheets/d/11Ezlt2dOjwZ_V4Ec4HMRwgWNXQFLfG9sTFj_pgI0Dko/edit#gid=1489259677
- Ōsaki⇄Ōsaki (876G) :
https://docs.google.com/spreadsheets/d/11Ezlt2dOjwZ_V4Ec4HMRwgWNXQFLfG9sTFj_pgI0Dko/edit#gid=435911370

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