

# KiHa 110 series



(Par MaedaAkihiko - [CC BY-SA 4.0](#))

## Introducing

The **KiHa 100 and 110 series** (キハ 100系 110系 ) are diesel multiple unit (DMU) trains operated since 1990 by East Japan Railway Company (JR East) on non-electrified rural lines in Japan.

A total of 247 vehicles were built between 1989 and 1999 by Fuji Heavy Industries and Niigata Transys.

([Wikipedia](#))

## Console detail



At top right is the [TIMS screen](#) (potentially hidden), along with the [ATS-P](#) indicator lights.

On the far left is the station list and station numbers.

The leftmost part of the console contains switches and LEDs for ventilation:

- Ventilation (□□ )
- Dehumidification (□□ )
- Cooling (□□ )
- Heating (□□ )

On the right, we have the safety radio equipment and some switches.

The most interesting part, in our case, is the central section. First we have a series of indicators. The top line contains the following indicators:

- ATS (Yellow) : lights up when the ATS is switched on.
- ATS (Red) : lights up when an ATS alarm is triggered and flashes when the emergency brake is applied.
- Moteur (□ ) : lights up when the engines are running.
- ↑ / ↓ : direction of travel.
- Conduite (□□ ) : lights up when the clutch is engaged.
- PC anormal (PC□□ ) : lights up when the programmable controller is not working properly.
- Limitation vitesse 1 : (□□ 1) : lights up when engine brake is applied.
- Limitation vitesse 2 (□□ 2) : lights up when the holding brake is applied.
- Frein adapté à la neige (□□ ) : lights up when the snow brake is activated.
- En maintenance (□□□ )

- EB : lights up when a vigilance system alarm occurs.

The second line contains the following indicators:

- Emergency short circuit (□□□□ )
- Safety brakes (□□□□ )
- Abnormal water temperature (□□□□ )
- Abnormal oil temperature (□□□□ )
- Abnormal exhaust temperature (□□□□□ )
- Fire (□□ )

Finally, we have the following items:

- Speedometer
- Door closing indicator
- Pocket watch
- Brake cylinder pressure (black arrow) and air reservoir pressure (red arrow)
- Emergency stop

## Availability

This model is available on these lines:

- [Hachiko Line](#)

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Révision #5

Créé 26 mars 2025 10:46:45 par cracrayol

Mis à jour 27 mars 2025 15:02:17 par cracrayol