



# openBVE (with the Class 323 EMU) cheat sheet

## Train

Power handle:

1	Apply emergency brakes
Q	Apply service brake in steps
A	Release brake in steps OR decrease power

Z Increase power

Reverser:

F	Push reverser handle away from you (Reverse > Neutral > Forward)
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V Pull reverser handle towards you (Forward > Neutral > Reverse)

Door controls:

F5	Manually open/close left doors
F6	Manually open/close right doors

Horn:

Num -	Sound a short high then low tone on the horn (due the way openBVE works, the sound will repeat until you press 'Numpad Minus' again)
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Num + Sound a low tone on the horn

Num Enter	Sound a high tone on the horn
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## Camera and view

Camera view selection:

F1	Switch to internal cab view
F2	Switch to external car view (you can either follow the train or enter carriages)

F3	Switch to external track view (camera stays in position relative to world)
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F4 Switch to drive-by views (camera can be moved but remains pointed at the player's train; cycle between non-zooming and zooming mode)

Points of interest:

Num 7	Jump to the next Point of Interest
Num 1	Jump to the previous Point of Interest

Camera positioning and zooming:

Num 8	Move the camera up
Num 2	Move the camera down
Num 4	Move the camera left
Num 6	Move the camera right
Arrow keys	Rotate the camera
Num 9	Move camera forward
Num 3	Move camera backward
Num 0	Zoom out
Num .	Zoom in
Num /	Tilt camera left
Num *	Tilt camera right
Num 5	Reset camera position to default

## Security System and Miscellaneous Controls (via plugin DLL)

Main in-cab system controls (via plugin DLL):

Insert	AWS Reset button
Del	Acknowledge Driver Vigilance Device
Home	Wipers on / speed up
End	Wipers slow down / off
Page Up	Enable / Disable TPWS TSS Override
Page Down	Isolate AWS, TPWS, and vigilance device

Miscellaneous Controls (via plugin DLL):

2	Raise the pantograph
3	Lower the pantograph
4	Toggle tail lights on/off
5	Set the headlights (day, marker lights only, night, off)
6	Signal guard with buzzer (1 buzz per button press)
Space	Activate/Deactivate the DRA

## Other openBVE Keyboard Assignments

In-game Menu Navigation:

Esc	AWS Reset button
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Up arrow / Down arrow	Acknowledge Driver Vigilance Device
Enter	Wipers on / speed up Silecekleri aç/hızlandır
Miscellaneous openBVE Simulator Commands:	
F10	Cycle between Debug interface mode, no on-screen information, and normal in-game information mode
F11	Enable or disable backface culling (enables one sided 3D surfaces to be viewed from both sides, useful for legacy BVE routes designed to be viewed only in a forward direction)
F12	Enable or disable Low CPU mode (reduces CPU usage; handy if you want to multitask but only have a slow or single core processor)
Pause	Pause or resume the game
Other commands:	
Ctrl + Q	Quit openBVE (after confirmation)
Ctrl + A	Activates or deactivates the AI driver (if you have installed the class 323 3D cab and UKTrainSys cross-platform plugin update, then the AI driver can also fully operate the systems which are simulated by the plugin)
Ctrl + S	Activate or deactivate security systems (only visible with non-plugin enabled trains or for non-Windows users; see the openBVE website for more information and commands)
Ctrl + X	Show or hide the framerate
Ctrl + C	Show or hide the in-game clock
Ctrl + V	Show or hide the current speed or velocity (mph > km/h > hide)
Ctrl + R	Disable or enable in-cab camera restriction (when disabled, allows you to pan the camera beyond the boundaries of the 2D cab panel or image)

Ctrl + T	Show the timetable (BVE4 style timetable > openBVE Timetable > Hide)
Ctrl + Up arrow / Down arrow	Scroll up or down the openBVE style timetable
Ctrl + F	Switch between windowed and fullscreen mode
Ctrl + J	Time Acceleration (x5 / Normal)
Ctrl + M	Mute/Enable Sound
Ctrl + B	Show or hide the braking system debug output
Ctrl + N	Show or hide vertex normals (advanced users only)
Ctrl + W	Show or hide wireframe 3D models

Source: railsimroutes.net

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More information: [defkey.com/openbve-with-the-class-323-emu-shortcuts](https://defkey.com/openbve-with-the-class-323-emu-shortcuts)

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