

GR8MOD

CAB RADIO GUIDE

CATERPILLAR D11T

Live stations, Spotify and your own music · by Grade8

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The D11T has a working radio in the overhead panel. It plays through the two cab speakers, so it sounds like a radio in a machine cab: clear from the seat, muffled from outside with the doors shut, louder with the doors open. The station or song name scrolls across the radio's display.

The Three Sources



Radio on LIVE: station name on top, source and volume below

LIVE	Internet radio stations. Needs the free GR8 Radio Relay.
SPOTIFY	Whatever your Spotify app plays. Needs the free GR8 Radio Relay.
LOCAL	Your own music files. Works out of the box - nothing extra needed.

Why a helper program? BeamNG does not let mods reach the internet or other programs' sound. The GR8 Radio Relay is a small, free helper that runs on your PC next to the game and does that part. It cannot be put inside the mod zip. If you only want your own music, you don't need it at all.

The radio always starts on LIVE. Press Alt+M (or the MODE button) to change source: LIVE -> SPOTIFY -> LOCAL -> LIVE.

Using The Radio



Radio, volume knob and mode button on the overhead panel

The radio only plays while the dozer's key is on.

Keys	Cab control (overhead panel) What it does
Alt+R	radio power button radio on / off
Alt+M	MODE button source: LIVE / SPOTIFY / LOCAL
Alt+.	seek forward button next station (LIVE) / next track
Alt+,	seek back button previous station / previous track
Alt+= / Alt+-	volume knob volume up / down in 10 % steps (the knob steps up 10 % per click and wraps back to low after full)

All radio keys can be changed in Options > Controls (search "D11 radio").

The display shows the source and its status on the bottom line, the station / song name on top (long names scroll) and a volume bar.

Local Music (No Helper Needed)

1. Open your BeamNG user folder: paste this into the Windows Explorer address bar and press Enter:
%LOCALAPPDATA%\BeamNG\BeamNG.drive\current
2. Create a folder called "music" there (if it isn't there already):
%LOCALAPPDATA%\BeamNG\BeamNG.drive\current\music

3. Copy your music files into it. Sub-folders are fine - the radio looks through all of them. Supported file types: MP3, OGG, WAV, M4A, AAC, FLAC, OPUS and WEBM.
4. In the cab: key on, Alt+R to switch the radio on, Alt+M until the display shows LOCAL.

How it plays:

- Tracks play in alphabetical order of their path (folder and file name), one after another. When a track ends, the next one starts.
- Alt+. / Alt+, (or the seek buttons) skip to the next / previous track.
- The display shows the file name (without the extension, underscores shown as spaces) and "LOCAL 3/57" - the track number and how many tracks it found.
- Music you add while the game is running is picked up within about 10 seconds.
- A file the game cannot play is skipped automatically.
- "NO MUSIC FILES" / "ADD MUSIC TO /music": the folder is empty or in the wrong place.
- "CAN'T PLAY FILES": none of the files could be played - try plain MP3 files.

Tip: name your files with a number first ("01 Song.mp3", "02 Song.mp3") to control the order.

Setting Up The Gr8 Radio Relay (For Live And Spotify)

The relay is a separate free download that comes with the mod. Setup takes about a minute and you only do it once. Full details are in the relay's own README.pdf.

1. Unzip the "GR8 Radio Relay" folder somewhere it can stay, for example Documents\GR8 Radio Relay. (Not a Downloads folder you tidy up - the relay runs from wherever you put it.)
2. Double-click GR8RadioRelay.exe. Windows may say "Windows protected your PC" because the program isn't signed: click "More info", then "Run anyway". (The source code, GR8RadioRelay.cs, is included.)
3. A setup box appears. Choose one: YES - start with Windows (recommended): the relay sits quietly in the system tray from now on. NO - use a Steam launch option instead: the launch option is copied to your clipboard. In Steam, right-click BeamNG.drive > Properties > General > Launch Options and paste it (Ctrl+V). Pressing Play then starts the relay together with the game, and it closes again when the game closes.
4. That's it. Start the game, get in the D11T, key on, radio on.

You can check the relay is running: look for its icon in the system tray (bottom right of the taskbar, you may need to click the little arrow).

Live Stations

With the relay running and the radio on LIVE, the radio tunes the selected station. The display shows "LIVE TUNING" and then "LIVE" when the music starts. Alt+. / Alt+, step through the stations; after the last station it starts again at the first.

Stations included: KEXP 90.3 Seattle Radio Paradise SomaFM Boot Liquor SomaFM Groove Salad SomaFM Indie Pop Rocks SomaFM Left Coast 70s

Adding or changing stations The station list is a small text file inside the mod zip:

vehicles\gr8mod11\radio\stations.json Each line is one station with a name and a direct stream link, for example: {"name": "My Station", "url": "https://example.com/stream.mp3"}, Any station with a direct MP3 stream link works (playlist files such as .m3u or .pls do not - open them in a text editor to find the real stream link inside). To edit it, open the mod zip with an archive tool such as 7-Zip, edit the file, and save it back into the zip. Keep a copy of your list: updating the mod replaces the file. Restart the game after editing.

Spotify

1. Open the Spotify desktop app (the Windows app, not the web player) and log in.
2. With the relay running, switch the radio to SPOTIFY (Alt+M).
3. Your Spotify music now plays in the cab. Spotify's own output on your PC goes almost silent while it plays, so you don't hear it twice.
4. Alt+. / Alt+, (or the seek buttons) skip to the next / previous track. If Spotify was paused, switching to SPOTIFY starts it playing.
5. The display shows "Artist - Song" from Spotify.

Turning the radio off, or switching away from SPOTIFY, pauses Spotify and puts its volume back to normal. If you ever close the relay mid-song and Spotify stays very quiet, just start the relay once - it restores Spotify's volume (or turn Spotify up in the Windows volume mixer).

The radio's volume knob sets the cab level; the relay evens out the level, so Spotify's own volume slider doesn't matter much. Spotify mode needs Windows 11 or an up-to-date Windows 10.

Radio Display Messages

LIVE TUNING	connecting to the station
LIVE	playing a live station
NO SIGNAL - RELAY OFF	LIVE mode, but the GR8 Radio Relay isn't running
SIGNAL LOST	the station stream stopped; the radio retries by itself
NO STATIONS	the station list is empty or broken
SPOTIFY	playing from Spotify (the song name appears on top)
SPOTIFY RELAY OFF	SPOTIFY mode, but the GR8 Radio Relay isn't running
SPOTIFY OPEN SPOTIFY	the Spotify desktop app isn't running
LOCAL 3/57	playing your local music, track 3 of 57
LOCAL NO MUSIC FILES	no music found in the music folder
LOCAL CAN'T PLAY FILES	none of the files could be played

When the relay isn't running, the radio retries every few seconds - just start the relay and it picks up by itself.

Troubleshooting

No sound at all. Is the key on? Is the radio on (the display lights up)? Turn the volume up (Alt+=). Check BeamNG's own master volume.

"RELAY OFF" / "NO SIGNAL - RELAY OFF". The relay isn't running. Start GR8RadioRelay.exe (or launch the game from Steam if you chose the launch option). LOCAL mode works without it.

A live station won't play or keeps dropping. Try another station - streams sometimes go offline. Check your internet connection. Right-click the relay's tray icon > Open log to see what happened.

Spotify says "OPEN SPOTIFY". Start the Spotify desktop app and log in, then switch the radio to SPOTIFY again.

Spotify plays on my PC speakers as well as in the cab. Switch the radio off and on again in SPOTIFY mode. Make sure only one copy of the relay runs.

Spotify is very quiet after playing. Start the relay once (it restores Spotify's volume), or turn Spotify up in the Windows volume mixer.

My local music doesn't show up. The folder must be %LOCALAPPDATA%\BeamNG\BeamNG.drive\current\music (your current BeamNG user folder). Check the file types. Wait about 10 seconds after adding files.

The radio is muffled. It is meant to be muffled from outside the cab with the doors shut - switch to the driver camera, or open a door.

Privacy

The relay only listens on your own PC (127.0.0.1, port 47811); nothing outside your PC can talk to it. It fetches only the radio stream you pick and, in Spotify mode, passes Spotify's sound to the game. Nothing is recorded or saved, and nothing is sent anywhere else. It keeps a small log file of what it did (%LOCALAPPDATA%\GR8RadioRelay\relay.log). LOCAL music never leaves your PC and needs no helper at all.

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