

Mercedes Benz B Class

Mercedes Benz B Class The Mercedes-Benz B-Class is a compact luxury MPV (Multi-Purpose Vehicle) that combines practicality, comfort, and premium features. Here's an overview of its key aspects:

Generations & Key Updates

- First Generation (W245, 2005–2011)
- Launched as a compact family-oriented hatchback with a tall roofline.
- Featured a front-wheel-drive (FWD) platform shared with the A-Class.
- Engine options included petrol and diesel variants (e.g., B 180, B 200 CDI).
- Second Generation (W246, 2011–2018)
- More refined design, improved interior space, and better fuel efficiency.
- Available with advanced safety tech like Collision Prevention Assist.
- Third Generation (W247, 2018–Present)
- Based on the MFA2 platform (shared with A-Class, CLA, etc.).
- More dynamic styling, updated MBUX infotainment system, and hybrid options.
- B 250 e (PHEV) – Plug-in hybrid with ~40 miles (64 km) electric range.

AMG Line offers sportier styling.

- Key Features
- Spacious Interior – High seating position, ample cargo space, and flexible seating.
- MBUX Infotainment – Dual-screen setup, voice control, and augmented reality navigation.
- Safety Tech – Active Brake Assist, Lane Keeping Assist, Adaptive Cruise Control.

Pros & Cons

Pros:

- Premium cabin with high-quality materials.
- Comfortable ride and good visibility.
- Strong safety features.
- Cons:
- Less sporty than rivals like the BMW 2 Series Active Tourer.
- PHEV version has a modest electric range compared to newer competitors.

Price (New & Used)

- New: Starts at ~€35,000–€45,000 (varies by market and trim).
- Used (2018–2020): ~€20,000–€30,000 depending on mileage and spec.
- Performance & Engine Options Current W247 Generation
- The B-Class offers a range of efficient and peppy engines, including mild hybrids and a plug-in hybrid (PHEV):

Petrol Engines

- B 180 (1.3L Turbo, 136 HP) – Entry-level, good for city driving.
- B 200 (1.3L Turbo, 163 HP) – More power, still fuel-efficient.
- B 250 (2.0L Turbo, 224 HP) – Sportier acceleration (0–100 km/h in ~6.6s).
- Diesel Engines
- B 180 d (1.5L, 116 HP) – Best for fuel economy (~4.5L/100km).
- B 200 d (2.0L, 150 HP) – Better torque for highway driving.
- Plug-in Hybrid (PHEV)
- B 250 e – Combines a 1.3L turbo petrol + electric motor (218 HP total, ~40–45 miles electric range).
- Charges in ~1.5 hours (7.4 kW charger).

Electric Drive (Previous Gen)

- B-Class Electric Drive (2014–2017) – 28 kWh battery, ~140 km (87 miles) range.
- Slow charging by today's standards (DC fast charging not available).
- Trim Levels & Equipment (Europe Market)
- Style (Base)
- 17" alloys, LED lights, MBUX dual-screen, keyless start.
- AMG Line
- Sportier bumpers, 18" wheels, AMG interior trim, flat-bottom steering wheel.
- Premium Plus (Top)
- Augmented Reality Navigation, Burmester sound system, panoramic sunroof.

Optional Packs:

- Driving Assistance Plus (Semi-autonomous driving).
- Night Package (Black exterior accents).
- Driving Experience
- Comfort: Softer suspension than A-Class, great for long trips.
- Handling: Not as sharp as a BMW 2 Series, but precise steering.
- Space: 385L boot (bigger than A-Class), rear seats fold flat.
- Reliability & Common Issues
- Generally reliable, but watch for:
- 7-speed DCT (Dual Clutch) – Occasional jerky shifts in early W247 models.
- PHEV Battery Degradation – Some reports of reduced range over time.
- Infotainment Glitches – MBUX can freeze (fixed via software updates).

Recommended Model Years:

- 2019+ (W247) – Improved tech and hybrid options.
- Avoid 2014–2016 Electric Drive (outdated battery tech).
- Should You Buy a B-Class?
 - Yes if:
 - You want a premium, practical family car.
 - Prefer Mercedes comfort & tech over sportiness.
 - Need a PHEV with decent electric range.
 - No if:
 - You want a sporty drive (BMW 2 Series Active Tourer is better).
 - Need a full EV (Consider the Mercedes EQA instead).

Hidden Features & Easter Eggs

- "Hey Mercedes" Voice Assistant Tricks
- Say "Hey Mercedes, I'm stressed" → car activates climate comfort mode (softer air flows seat massage if equipped).
- Augmented Reality Navigation Hacks
- In cities, the live camera view (with arrows overlaid on the road) works better if you disable "3D buildings" in settings.
- Zoom in/out with two-finger swipe on the touchpad (not obvious).
- Secret Boot Space
- Rear seats recline slightly (pull the strap twice).
- Dynamic LED Headlight Trick
- Hold the high beam assist + fog light button for 5 sec → enables "European mode" (wider beam pattern).

Best Tuners:

- RaceChip (Plug & play, keeps warranty if removable).
- Brabus B25 (Official Mercedes partner, +30 HP).
- Handling Mods
- Eibach Pro-Kit Springs (-30mm drop, better cornering).
- AMG Line Brake Upgrade (Larger discs from A 35 AMG).
- Exhaust Sound
- Remus Axel-Back (Deeper tone, no drone).
- Fake V8 Sound (MBUX can simulate AMG noise in Sport+ mode).
- Hybrid & EV Secrets (B 250 e PHEV)
- "Battery Hold" Hack: Press ESP + Gas Pedal for 3 sec → forces ICE to charge battery while driving.
- Max Regeneration: Shift to "D-" (not just D) for stronger regen braking.

- Real-World Range: In winter, expect ~30 km (not 45 km).
- Ownership Hacks (Save Money!)

Service Cost Cutting

- Oil
- diesel models drop hard after this).

Most Common Problems & Fixes

- MBUX Freezing → Hard Reset: Hold Volume Button for 30 sec.
- DCT Jerking → Software Update (TSB #LI54.50-P-065931).
- PHEV Charging Fault → Check fuse #58 in trunk (common failure).
- Worst Year: 2015 B 200 (W246) – Timing chain issues.
- DIY Mods You Can Do in 10 Minutes
- Ambient Light Color Hack: Use Developer Mode to unlock hidden colors (YouTube tutorials available).
- Disable Start/Stop Permanently: Unplug sensor under passenger seat.
- Android Auto Full Screen → Enable in engineering mode.
- Factory Secrets & Little-Known Facts

The Renault Connection

- The current MFA2 platform was co-developed with Renault (shared with Kangoo/Nissan Qashqai)
- The 1.3L turbo petrol engine (B 180/B 200) is actually a Renault-Nissan HR13DDT unit
- Mercedes modifies it with different turbos, mounts and software (power band is smoother than in Renaults)
- Hidden Factory Modes
- Mercedes Benz B Class Transport Mode: Disables most electronics for shipping (activated by dealer)
- Can be manually enabled by holding hazard lights + brake pedal for 30 sec (useful for long-term parking)
- Dyno Test Mode: Disables stability control completely (hold ESP button for 10 sec while starting engine)

Weird Production Choices

- The rear wiper motor is identical to W204 C-Class units
- The PHEV battery cooling system shares parts with Tesla Model S pumps
- Early W247 models used the same door handles as the W222 S-Class
- Ultimate Workshop Knowledge
- Torque Specs You'll Never Find in Manuals:
- Wheel bolts: 130 Nm (higher than most Mercedes models)
- Battery terminal: 8 Nm (overtightening causes IBS sensor failures)

Fluid Capacities:

- Engine oil: 5.8L (despite being a small engine)
- DSG fluid: 7.2L (lifetime fill - but should be changed at 100k km)
- PHEV battery coolant: 9.3L (special G48 purple fluid)
- Component Lifespans:
- Timing chain: 180-220k km (petrol)
- DCT clutch packs: 150k km (with proper maintenance)
- PHEV battery: 12-15% degradation at 100k km

