2015 Mercedes-Benz CLA250 at 72,000 mi

WDDSJ4EB8FN123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
CLA250 · C117 CLA250 sedan	Mercedes-Benz M270 2.0L turbo four (transverse)	72,000 mi	FWD
BUILD MONTH	**REPORT DATE**	**MODE**	**PREPARED FOR**
Not entered (door jamb)	October 27, 2026	Owner	Sample Owner

VIN check: check digit valid; model-year code 'F' = 2015, matches the year entered. The VIN doesn't record the build month. Sample report: synthetic VIN.

1 · SUMMARY

What this car needs, in order

Each item compares this car's mileage with when owners and shops report the part failing. It is not an inspection: a qualified technician decides what the car actually needs.

1
inspection recommended now

0
to plan in the next 30,000 miles

3
to watch or check at each service

Safety recalls NHTSA lists for this model year (6 of 7)

- **15V-662** · Engine · camshaft welds: Camshaft welds can fail and damage the engine, which can cause a stall. Only cars built July 17 to August 31, 2015 are affected.
- **23V-854** · Body · front roof panel (after a prior repair): If the front roof panel was not bonded correctly in an earlier repair, it can come off while driving and become a road hazard.
- **21V-197** · Body · front roof panel (panoramic roof): The bond holding the front roof panel can weaken, and the panel can come off while driving and become a road hazard.
- **19V-892** · Air bags · passenger occupant sensor: The passenger seat sensor may be calibrated wrongly, so the front passenger air bag may not deploy in a crash.
- **17V-627** · Air bags · driver frontal: The driver air bag can deploy without a crash, which can cause injury or a crash.
- **17V-114** · Electrical · starter current limiter: If the engine cannot turn over, the starter current limiter can overheat and melt nearby parts, raising the risk of a fire.

A model-year list, not a VIN check. The full report lists the others. Repairs are free at a Mercedes-Benz dealer if open. Check this VIN at nhtsa.gov/recalls.

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Mercedes-Benz dealer for a campaign printout, including 15V-662. Read the build month (MM/YY) on the driver's door-jamb label.

Recommended now at the next service — $100–$160

Inspection: check now, while it's cheaper to fix — $100–$160

about 1 h of shop labor, our estimate

Dual-clutch transmission (7G-DCT) faults: Past the range (20,000–52,000 mi, the middle half of 10 owner reports) · if it fails: $250–$3,200
Known weak point for this engine, not a finding on your car. The inspection shows whether yours has early signs.

Next 12 months up to about 84,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 102,000 mi

Nothing else enters its reported range in this window.

Watch inspect at each service, fix on condition, or optional

Crankcase ventilation valve fault (P052E) — No published price

Any mileage (Mercedes bulletin for the CLA from 2014) · Inspect at each service; fix at the first sign

Stalls right after a cold start in deep frost (frozen muffler) — No published price

Any mileage (Mostly short-trip cars in very cold weather) · Inspect at each service; fix at the first sign

ECU software check-engine light (outside temperature sensor) — Free if covered check the VIN

Any mileage (CLA250 2014–2017 and GLA250 2015–2016; 10 yr / 120,000 mi) · Ask for this check at every service

Recommended now

$100–$160

Independent shop, installed. Dealers often charge more.

Planned through 102,000 mi

$100–$160

Nothing else on the list before 102,000 mi. Now + next 12 months + next 30,000 miles. Excludes “watch” and optional items.

Costs are published independent-shop ranges (low end + low end, high end + high end). Bundled jobs are priced together because the labor overlaps. Routine service (oil, brakes, tires) isn't included; factory fluid and spark plug intervals are listed below.

FACTORY MAINTENANCE

The maker's maintenance schedule isn't on this report

This report doesn't include the maker's scheduled maintenance for this car yet, so brake fluid, spark plugs, coolant and transmission fluid aren't listed even when they're due. Check the service records and the maker's schedule for this car.

WHERE 72K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Crankcase ventilation valve fault (P052E)	Any mileage; Mercedes bulletin for the CLA from 2014 OFFICIAL	Any mileage
2	Dual-clutch transmission (7G-DCT) faults	20,000–52,000 mi (middle half of 10 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range
3	Stalls right after a cold start in deep frost (frozen muffler)	Mostly short-trip cars in very cold weather OFFICIAL	Any mileage
4	ECU software check-engine light (outside temperature sensor)	CLA250 2014–2017 and GLA250 2015–2016; 10 yr / 120,000 mi OFFICIAL	Any mileage

Colors compare mileage with reported failures, not the car's condition. Red: past the range. Amber: inside or approaching. Green: below, or not listed for a recall.

2 · RECALLS AND BULLETINS

Recalls to check for this 2015 Mercedes-Benz CLA250

Safety recall repairs are free at Mercedes-Benz dealers. Nothing here can tell whether a recall is open or already done on this VIN; only the official VIN lookup or a dealer can.

Official VIN check (2 minutes)

1. Go to nhtsa.gov/recalls and enter WDDSJ4EB8FN123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Mercedes-Benz dealer for a campaign printout; it also lists completed campaigns.

2.0L M270 TURBO FOUR RECALLS WE TRACK

15V-662 · Camshaft welds may fail (2015 CLA250, GLA250 built July 17–Aug 31, 2015)

NHTSA lists this model and year: check by VIN

Intake or exhaust camshaft welds may fail and damage the engine. Free camshaft inspection and replacement. OFFICIAL [5]

☐ VIN checked ☐ Open: booked with dealer ☐ Completed (printout kept)

21V-033 · Transmission may shift to neutral (2019 GLA 250)

Not listed for MY2015

The power supply to the transmission control unit may be interrupted while driving, shifting the transmission into neutral. Free control unit replacement. OFFICIAL [5]

Other 2.0L M270 turbo four recalls we track, not listed by NHTSA for this model and year: 21V-961 (fuel rail may leak (2019 GLA250 and others)).

EVERY RECALL NHTSA LISTS FOR THE 2015 MERCEDES-BENZ CLA250 (7)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
15V-662 2.0L M270 turbo four tracked	Engine · camshaft welds	Camshaft welds can fail and damage the engine, which can cause a stall. Only cars built July 17 to August 31, 2015 are affected. Details
23V-854	Body · front roof panel (after a prior repair)	If the front roof panel was not bonded correctly in an earlier repair, it can come off while driving and become a road hazard. Details
21V-197	Body · front roof panel (panoramic roof)	The bond holding the front roof panel can weaken, and the panel can come off while driving and become a road hazard. Details
19V-892	Air bags · passenger occupant sensor	The passenger seat sensor may be calibrated wrongly, so the front passenger air bag may not deploy in a crash. Details
17V-627	Air bags · driver frontal	The driver air bag can deploy without a crash, which can cause injury or a crash. Details
17V-114	Electrical · starter current limiter	If the engine cannot turn over, the starter current limiter can overheat and melt nearby parts, raising the risk of a fire. Details

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
19V-787	Emergency call (eCall) software	An inaccurate vehicle location may delay emergency responders, increasing the risk of injury. Details

Source: NHTSA recalls API, fetched 2026-10-27 and combined across NHTSA model names: CLA250. Safety categories (air bags, fire, brakes, stalling, roll-away and loss of control) are listed first; listings whose NHTSA text names another engine, or an aftermarket part, go last. OFFICIAL

SERVICE ACTIONS, BULLETINS AND WARRANTY PROGRAMS

CAMPAIGN	WHAT IT SAYS	THIS CAR
ECU software extended warranty	10 yr / 120,000 mi on the engine control unit software (false outside-temperature-sensor check-engine light), CLA250 2014–2017 and GLA250 2015–2016. OFFICIAL [9]	May apply: check by VIN
Intake line assembly emission extended warranty	15 yr / 150,000 mi on the partial-load ventilation valve, but only for M274 C-, E-, GLC-, SLC- and SLK-Class models; the CLA and GLA are not listed. OFFICIAL [3]	Does not cover CLA/GLA

4 · THE 4 WEAK POINTS

Each weak point, one card each

Every figure carries its source. Retailer part numbers are shown only when the retailer lists them for this chassis (C117).

1 Crankcase ventilation valve fault (P052E)

Any mileage

Severity: High: overheating, stalls, limp mode or a big bill · 60 mentions in counted NHTSA complaints
COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (Any mileage; Mercedes bulletin for the CLA from 2014), so mileage doesn't say much here. Range: Any mileage; Mercedes bulletin for the CLA from 2014 OFFICIAL [2]

WHAT FAILS SHOP/RETAILER [2][3][4]

The electrically controlled partial-load crankcase ventilation valve can stick, turning on the check-engine light with P052E71. On the M274 cars Mercedes later extended the warranty on the intake line assembly that holds this valve to 15 years / 150,000 miles, but the CLA and GLA are not on that list, so owners usually pay.

SYMPTOMS

- Check-engine light with P052E71
- Failed emissions inspection
- Oil smell or oily vent hoses

IF IT'S LEFT TOO LONG

Mostly an emissions and inspection problem; a stuck valve can raise crankcase pressure and cause oil leaks.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Fix when the code sets; ask the dealer to check whether any goodwill or extension applies by VIN.

ESTIMATED REPAIR COST

No published price for the valve alone	**No published price** independent shop, installed
Owner-reported repair bills in NHTSA complaints (n=6)	**$1,960–$3,000** COMPUTED FROM NHTSA DATA [1] reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

Where the numbers come from: Computed from 6 NHTSA owner complaints that quote a repair bill for this problem (middle half of the bills; median $2,500). Examples: ODI 11696266, 11373754, 11589101, 11638804. Owner-reported, often dealer prices; not shop quotes.

PARTS FOR C117

- Ask your parts supplier for the OE part number for this VIN.

WHAT TO ASK YOUR SHOP

- Any P052E codes or emissions-test failures?
- Crankcase vent valve or line replaced?

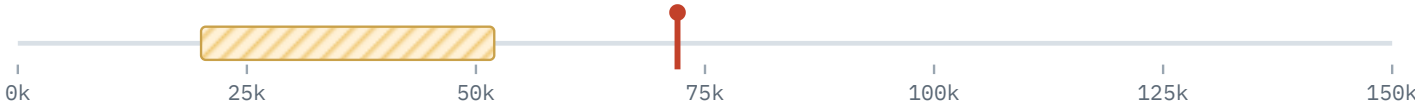
2 Dual-clutch transmission (7G-DCT) faults

Past the range

Severity: High: overheating, stalls, limp mode or a big bill · 95 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 72,000 mi this car is past the reported range (20,000–52,000 mi (middle half of 10 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 20,000–52,000 mi (middle

half of 10 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: All years; recall 21V-033 covers 2019 GLA 250 only

WHAT FAILS FORUM/BLOG [5][6][7]

The 7-speed dual-clutch gearbox can lose drive and drop into neutral. Mercedes recalled 2019 GLA 250s because the power supply to the transmission control unit can be interrupted while driving. Owners of other years report jerky shifts and neutral drop-outs; Mercedes also has a bulletin for a scratching noise into reverse when cold.

SYMPTOMS

- Transmission drops into neutral while driving
- "Do not shift gears, visit workshop" message
- Jerky or delayed shifts
- Scratching noise D to R when cold

IF IT'S LEFT TOO LONG

Losing drive in traffic is a crash risk.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Check recall 21V-033 (2019 GLA); have shift faults diagnosed early, before mechatronics damage.

ESTIMATED REPAIR COST

No free fix outside recall 21V-033 (2019 GLA 250 only)	**No published price** independent shop, installed
Shudder and mechatronics repairs, reported range	**$250–$3,200** FORUM/BLOG [7] reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

PARTS FOR C117

- Ask your parts supplier for the OE part number for this VIN.

WHAT TO ASK YOUR SHOP

- Any neutral drop-outs or transmission warnings?
- Transmission control unit or mechatronics replaced?

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3 Stalls right after a cold start in deep frost (frozen muffler)

Any mileage

Severity: Medium: leaks and wear · 0 mentions in counted NHTSA complaints
COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (Mostly short-trip cars in very cold weather), so mileage doesn't say much here.
Range: Mostly short-trip cars in very cold weather OFFICIAL [8]

WHAT FAILS OFFICIAL [8]

On short trips, condensation collects in the rear muffler. In very cold weather it can freeze and block the exhaust, so the engine starts and then dies at once. Mercedes replaces the exhaust system or rear muffler.

SYMPTOMS

- Engine starts and dies immediately in freezing weather

IF IT'S LEFT TOO LONG

The car will not stay running until the ice clears.

ESTIMATED REPAIR COST

No published price	**No published price** independent shop, installed
No published price	**No published price** reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

IS IT WORTH DOING EARLY? OUR ESTIMATE

Fix if it happens; longer drives reduce condensation.

PARTS FOR C117

- Ask your parts supplier for the OE part number for this VIN.

WHAT TO ASK YOUR SHOP

- Any start-then-die episodes in winter?

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4 ECU software check-engine light (outside temperature sensor)

Any mileage

Severity: Medium: leaks and wear · 0 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (CLA250 2014–2017 and GLA250 2015–2016; 10 yr / 120,000 mi), so mileage doesn't say much here. Range: CLA250 2014–2017 and GLA250 2015–2016; 10 yr / 120,000 mi OFFICIAL [9]

WHAT FAILS OFFICIAL [9]

After long parking, the engine computer can wrongly flag the outside temperature sensor and turn on the check-engine light. Mercedes extended the warranty on the ECU software to 10 years / 120,000 miles.

SYMPTOMS

- Check-engine light after the car sat for a long time

IF IT'S LEFT TOO LONG

A false warning light; it can block an emissions inspection.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Free software update inside the extension; check the VIN.

ESTIMATED REPAIR COST

Free under the ECU software extension (10 yr / 120,000 mi)	**Likely not covered** OFFICIAL [9] a 2015 model is past 10 years; check the VIN with the dealer
No published bill outside the program	**No published price** reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

PARTS FOR C117

- Ask your parts supplier for the OE part number for this VIN.

WHAT TO ASK YOUR SHOP

- Check-engine light after long parking?

5 · ALSO REPORTED, NOT RANKED

Other themes in 2.0L M270 turbo four owner complaints

Every NHTSA complaint theme with 10 or more counted reports is either a weak point above or explained here.

THEME	COMPLAINTS	WHY IT ISN'T A WEAK POINT
Stalling / loss of power	89	Mixed causes (steering lock, electrical, transmission, crankcase valve); see the weak points.

6 · BUYING OR SELLING

Used-car checklist and resale helper

For owners this is a resale checklist: it's what a careful buyer will ask.

Ask the inspecting shop to check

- Stored P052E codes
- Transmission behavior cold and warm
- Open recalls and extensions by VIN

Ask the seller

- Crankcase vent valve replaced?
- Any transmission drop-outs or repairs?

Documents to request

- Dealer service-history printout for the VIN (shows campaigns and extended-warranty repairs)
- nhtsa.gov/recalls screenshot

WHAT A BUYER MAY DEDUCT

FINDING	ESTIMATED ADJUSTMENT
Crankcase ventilation valve fault (P052E): symptoms or fault codes present	No published price
Dual-clutch transmission (7G-DCT) faults: symptoms or fault codes present	No published price
Stalls right after a cold start in deep frost (frozen muffler): symptoms or fault codes present	No published price
ECU software check-engine light (outside temperature sensor): fault found on inspection	No published price
Pre-ticked rows (●), if no records clear them	**None at this mileage**

● = expected at this mileage. Estimated repair costs, not an appraisal. Recalls cost the seller nothing: ask for open recalls to be completed rather than discounted. OUR ESTIMATE

How this report is built

Inputs. VIN, model year, model, mileage and build month (if entered). Model and engine are checked with NHTSA's vPIC decoder.

Mileage positions. Below: more than 10,000 miles before the reported range. Approaching: within 10,000. Inside: in the range, or past the start of an open-ended range. Past: beyond the top of the range. These bands are our rules, not an industry standard.

The plan. Critical items inside or past their range go first; high-severity items follow, and jobs that share labor are bundled. At most three jobs land in “Recommended now”. Leaks that are cheap to watch are fixed on condition; inspections are asked for at each service.

Costs. Published independent-shop ranges from shop quotes, retailer prices and owner reports. The worst-case cost of every item failing is not shown: it isn't an expected cost.

Labels. OFFICIAL NHTSA/Mercedes-Benz documents · SHOP/RETAILER parts prices and shop articles · FORUM/BLOG owner forums and blogs · COMPUTED FROM NHTSA DATA our analysis of NHTSA data · OUR ESTIMATE ours.

NHTSA complaint data. Pulled Oct 27, 2026 from NHTSA's complaints API for CLA250 and CLA-Class complaints (2013–2019) and GLA250 / GLA-Class complaints (2014–2019), leaving out AMG 45 models: 706 complaints. Some of these nameplates were sold with other engines too; for those we left out complaints whose text names another engine or a hybrid, so a few complaints about other engines can remain. Themes are keyword matches on the complaint text. COMPUTED FROM NHTSA DATA

THEME	COMPLAINTS	IN THIS REPORT
Transmission / neutral	95	Item 2
Stalling / loss of power	89	Also reported
Crankcase vent valve / P052E	60	Item 1
Turbo	8	—

Limits: complaints are self-reported and not adjusted for cars sold; keyword matching over- and under-counts; owners rarely file safety complaints about oil seeps, so leaks look rarer than they are.

SOURCES

1. NHTSA owner complaints for 2013–2019 CLA250 and 2014–2019 GLA250 complaints, leaving out AMG 45 models, pulled Oct 27, 2026 (ODI numbers in the cost notes) OFFICIAL
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Mercedes-Benz LI07.70-P-058650: Engine diagnosis warning lamp active, DTC P052E71 (partial-load crankcase ventilation valve), M270 in the CLA (2014-03-21), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2014/MC-10167492-9999.pdf

3. Mercedes-Benz NCU Emission Extended Warranty: Intake Line Assembly: Partial-load ventilation valve; 15 yr / 150,000 mi on M274 C/E/GLC/SLC/SLK models (CLA and GLA not listed) (2023-08-25), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2023/MC-10241531-0001.pdf

4. RepairPal: Mercedes-Benz CLA250 crankcase vent valve hose leaks oil (about $2,000 for the vent line assembly), via search extract Oct 27, 2026 SHOP/RETAILER
https://repairpal.com/crankcase-vent-valve-hose-leaks-oil-900

5. NHTSA recall records: 21V-033 (2019 GLA 250 transmission control unit), 15V-662 (2015 CLA/GLA camshaft welds) and 21V-961 (fuel rail), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=21V033000

6. Mercedes-Benz LI27.50-P-064440: 7G-DCT: scratching noise when changing from D to R with the transmission cold (2018-07-16), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2018/MC-10151943-9999.pdf

7. Au7o known issues: Mercedes-Benz CLA 2017 (7G-DCT shudder and mechatronics failure, reported $250–$3,200) (AI-assisted site, not independently verified) FORUM/BLOG
https://au7o.io/known-issues/mercedes-benz-cla?year=2017

8. Mercedes-Benz LI49.10-P-060070: Engine starts but stops again (frozen condensation in the rear muffler), models 117/156/176/246 (2014-10-22), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2014/MC-10135644-9999.pdf

9. Mercedes-Benz NCU Extended Warranty: Engine Control Unit Software (outside temperature sensor): MY 2014–2018 incl. CLA250 2014–2017 and GLA250 2015–2016: ECU software warranty extended to 10 yr / 120,000 mi (2019-03-13), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2026/MC-11031616-0001.pdf

This report contains no affiliate links; retailer prices are quoted as price sources only. Found an error? Email hello@repairahead.com.

PLEASE READ

Important

Based on public records and published repair costs. Not a diagnosis or a guarantee. Your technician's inspection decides what your car needs. Confirm recalls with a dealer using your VIN.

Informational only. This report is not a mechanical inspection, a diagnosis, or professional, legal or financial advice. Nobody from RepairAhead has seen, driven or inspected this vehicle.

Reported ranges and estimates, not predictions

Failure mileages are reported ranges compiled from public owner complaints, manufacturer bulletins, recalls and repair-shop reports. Costs are estimates. Parts can fail earlier, later or not at all, and other problems can occur. Statistics from owner complaints describe past reports to NHTSA; NHTSA has not reviewed or endorsed this analysis.

Safety issues go to a dealer

If you notice overheating, a burning or fuel smell, smoke, a brake-assist problem, stalling or loss of power, pull over when it's safe and contact a Mercedes-Benz dealer or qualified shop. Safety recall repairs are free at Mercedes-Benz dealers. Confirm recalls for this VIN at nhtsa.gov/recalls.

No warranty

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Based on public records and published repair costs. Not a diagnosis or a guarantee. Your technician's inspection decides what your car needs. Confirm recalls with a dealer using your VIN.