2012 Volkswagen Jetta 2.5 at 110,000 mi

3VWDX7AJ4CM123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
Jetta 2.5 · Mk6 Jetta 2.5 sedan	Volkswagen 2.5L five-cylinder (07K, CBTA/CBUA)	110,000 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 'C' = 2012, 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

2
to watch or check at each service

Safety recalls NHTSA lists for this model year (4)

- **19V-679** · Vehicle certification (evaluation cars): A small number of cars were changed during an internal evaluation and may not meet all federal safety standards.
- **19V-615** · Ignition key · shift lever switch: The key can be removed when the shift lever is not in Park, so the car could roll away.
- **15V-483** · Air bags · driver clock spring: Debris can tear the clock spring cable, and the driver air bag may then not deploy in a crash.
- **14V-656** · Suspension · rear trailing arms: A rear trailing arm that was bent in an earlier crash can break suddenly, which can cause loss of control.

A model-year list, not a VIN check. Repairs are free at a Volkswagen dealer if open. Check this VIN at nhtsa.gov/recalls.

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Volkswagen dealer for a campaign printout. 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

Timing chain and tensioner wear: Past the range (63,000–86,000 mi, the middle half of 18 owner reports) · if it fails: $800–$1,800

Six-speed automatic (09G) valve body and shift faults: Past the range (26,000–90,000 mi, the middle half of 116 owner reports) · if it fails: $1,700–$8,500

Known weak points for this engine, not findings on your car. The inspection shows whether yours has early signs.

Next 12 months up to about 122,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 140,000 mi

Nothing else enters its reported range in this window.

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

Secondary air system faults (P2431–P2433) — No published price

Any mileage (2005–2014 2.5L; new sensor in production from late 2011) · Inspect at each service; fix at the first sign

Crankshaft speed sensor (P1386) — $100–$259

independent shop, installed

Any mileage (2011–2014 Jetta, Passat, Golf and Beetle 2.5L) · Inspect at each service; fix at the first sign

Recommended now

$100–$160

Independent shop, installed. Dealers often charge more.

Planned through 140,000 mi

$100–$160

Nothing else on the list before 140,000 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 110K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Timing chain and tensioner wear	63,000–86,000 mi (middle half of 18 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range
2	Six-speed automatic (09G) valve body and shift faults	26,000–90,000 mi (middle half of 116 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range
3	Secondary air system faults (P2431–P2433)	2005–2014 2.5L; new sensor in production from late 2011 OFFICIAL	Any mileage
4	Crankshaft speed sensor (P1386)	2011–2014 Jetta, Passat, Golf and Beetle 2.5L 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 2012 Volkswagen Jetta 2.5

Safety recall repairs are free at Volkswagen 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 3VWDX7AJ4CM123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Volkswagen dealer for a campaign printout; it also lists completed campaigns.

2.5L FIVE-CYLINDER (07K) RECALLS WE TRACK

Other 2.5L five-cylinder (07K) recalls we track, not listed by NHTSA for this model and year: 05V-305 (fuel line clamp may be mispositioned (2005 Jetta 2.5L)), 10V-621 (fuel supply line can chafe and leak (2006–2010 Jetta, New Beetle, 2007–2009 Rabbit, 2009 Jetta SportWagen with 2.5L)).

EVERY RECALL NHTSA LISTS FOR THE 2012 VOLKSWAGEN JETTA 2.5 (4)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
19V-679	Vehicle certification (evaluation cars)	A small number of cars were changed during an internal evaluation and may not meet all federal safety standards. Details
19V-615	Ignition key · shift lever switch	The key can be removed when the shift lever is not in Park, so the car could roll away. Details
15V-483	Air bags · driver clock spring	Debris can tear the clock spring cable, and the driver air bag may then not deploy in a crash. Details
14V-656	Suspension · rear trailing arms	A rear trailing arm that was bent in an earlier crash can break suddenly, which can cause loss of control. Details

Source: NHTSA recalls API, fetched 2026-10-27 and combined across NHTSA model names: JETTA. 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
Left out of this list (JETTA): 20E-064 and 14E-007 cover aftermarket replacement parts (a master cylinder and a water pump), 11E-036 covers an accessory exhaust tip, and 11V-490 covers 2.0L TDI diesels only; all four are left out of this 2.5L sample. A VIN check would show them if they applied.

SERVICE ACTIONS, BULLETINS AND WARRANTY PROGRAMS

CAMPAIGN	WHAT IT SAYS	THIS CAR
Transmission valve body warranty information (VWP-10-06)	Volkswagen warranty information for the automatic transmission valve body, 2005–2008 Jetta and Rabbit. Terms are not published; ask a dealer by VIN. OFFICIAL [8]	Ask a dealer by VIN

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 (Mk6).

1 Timing chain and tensioner wear

Past the range

Severity: High: overheating, stalls, limp mode or a big bill · 69 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 110,000 mi this car is past the reported range (63,000–86,000 mi (middle half of 18 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 63,000–86,000 mi (middle half of 18 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: Owner reports cluster around 70,000–80,000 miles on 2005–2006 engines

WHAT FAILS FORUM/BLOG [2][3]

The 2.5 uses timing chains. A worn tensioner or stretched chain can let the cam timing drift; Volkswagen tells technicians to check cam timing first when P2279 (intake air leak) sets on this engine. Owners report rattles, misfires and, in bad cases, a jumped chain.

SYMPTOMS

- Rattle at start-up
- Check-engine light with P0016 or P2279
- Misfires, rough idle

IF IT'S LEFT TOO LONG

A chain that jumps can bend valves.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Act on any start-up rattle or cam timing code; change oil on time.

ESTIMATED REPAIR COST

Tensioner / chain repair, reported range (2.5L Beetle)	**$800–$1,800** FORUM/BLOG [3] independent shop, installed
Same range; a jumped chain costs more	**$800–$1,800** FORUM/BLOG [3] reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

1.0× The failure-bill midpoint ($1,300) is about 1.0× the early-fix midpoint ($1,300). A cost ratio, not a probability.

PARTS FOR MK6

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

WHAT TO ASK YOUR SHOP

- Any rattle at cold start?
- Timing chain or tensioner replaced?

2 Six-speed automatic (09G) valve body and shift faults

Past the range

Severity: High: overheating, stalls, limp mode or a big bill · 645 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 110,000 mi this car is past the reported range (26,000–90,000 mi (middle half of 116 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 26,000–90,000 mi (middle half of 116 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: Automatic cars; Volkswagen issued valve body warranty information for 2005–2008 Jetta and Rabbit

WHAT FAILS OFFICIAL [8][9]

The Aisin 6-speed automatic paired with this engine can develop harsh or erratic shifts. Volkswagen issued warranty information on its valve body for 2005–2008 Jettas and Rabbits, and a tech tip for a faulty fluid temperature sensor that keeps the torque converter trying to lock up.

SYMPTOMS

- Harsh or delayed shifts
- Flare between gears
- Limp mode

IF IT'S LEFT TOO LONG

A failing transmission can leave the car stuck in one gear.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Use only the specified fluid; diagnose shift complaints before they get worse.

ESTIMATED REPAIR COST

No published price for the sensor or valve body repair	**No published price** independent shop, installed
Owner-reported repair bills in NHTSA complaints (n=29)	**$1,700–$8,500** 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 29 NHTSA owner complaints that quote a repair bill for this problem (middle half of the bills; median $5,500). Examples: ODI 10556988, 10807586, 10451634, 10227348. Owner-reported, often dealer prices; not shop quotes.

PARTS FOR MK6

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

WHAT TO ASK YOUR SHOP

- Any harsh shifts or limp mode?
- Transmission or valve body replaced?

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3 Secondary air system faults (P2431–P2433)

Any mileage

Severity: Medium: leaks and wear · 10 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2005–2014 2.5L; new sensor in production from late 2011), so mileage doesn't say much here. Range: 2005–2014 2.5L; new sensor in production from late 2011 OFFICIAL [4]

WHAT FAILS OFFICIAL [4]

The secondary air pressure sensor can be contaminated by particles during secondary air injection and set P2431–P2433. Volkswagen says it does not affect how the car

ESTIMATED REPAIR COST

drives. On 2005–2008 cars the hose and sensor can be replaced separately.

SYMPTOMS

- Check-engine light with P2431, P2432 or P2433

IF IT'S LEFT TOO LONG

Fails an emissions inspection; no drivability effect per Volkswagen.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Fix before an emissions test.

No published price for the sensor	**No published price** independent shop, installed
Air pump replacement, average estimate (Jetta)	**$373** SHOP/RETAILER [5] reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

PARTS FOR MK6

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

WHAT TO ASK YOUR SHOP

- Any secondary air codes?

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4 Crankshaft speed sensor (P1386)

Any mileage

Severity: Medium: leaks and wear · 13 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2011–2014 Jetta, Passat, Golf and Beetle 2.5L), so mileage doesn't say much here. Range: 2011–2014 Jetta, Passat, Golf and Beetle 2.5L OFFICIAL [6]

WHAT FAILS OFFICIAL [6]

Volkswagen tells technicians to replace the crankshaft speed sensor (G28) when P1386 sets on the 2011–2014 2.5L.

SYMPTOMS

- Check-engine light with P1386
- Possible stalling or no-start

IF IT'S LEFT TOO LONG

A failing crank sensor can stall the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Replace the sensor when the code sets.

ESTIMATED REPAIR COST

Crankshaft position sensor replacement, 2013 Jetta	**$100–$259** SHOP/RETAILER [7] independent shop, installed
Same job	**$100–$259** SHOP/RETAILER [7] reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

1.0× The failure-bill midpoint ($180) is about 1.0× the early-fix midpoint ($180). A cost ratio, not a probability.

PARTS FOR MK6

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

WHAT TO ASK YOUR SHOP

- Any P1386 code?

5 · ALSO REPORTED, NOT RANKED

Other themes in 2.5L five-cylinder (07K) 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	675	Mixed causes (sensors, fuel line, transmission, electrical); not one engine fault.
Throttle body / EPC	116	Throttle and EPC-light complaints; no 2.5L-specific bulletin found.
Fuel smell / fuel leak	53	Includes the fuel line recalls 05V-305 and 10V-621; check they are done.

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

- Cold-start rattle and cam timing value
- Transmission shift quality cold and warm
- Stored secondary air or P1386 codes

Ask the seller

- Timing chain or tensioner replaced?
- Transmission service history?
- Fuel line recalls done?

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
Timing chain and tensioner wear: symptoms or fault codes present	$800–$1,800
Six-speed automatic (09G) valve body and shift faults: symptoms or fault codes present	No published price
Secondary air system faults (P2431–P2433): symptoms or fault codes present	No published price
Crankshaft speed sensor (P1386): symptoms or fault codes present	$100–$259
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/Volkswagen 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 Complaints for the listed nameplates and years that do not name a TDI/diesel, turbo, 1.4/1.8/2.0, VR6/V6 or hybrid; 2005 Jetta complaints only when they name the 2.5: 6,095 complaints. Some of these nameplates were sold with other engines too. For some we kept only complaints whose text names this engine (which under-counts); for others we left out complaints that name another engine or a hybrid (so a few about other engines can remain). Themes are keyword matches on the complaint text. `COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Stalling / loss of power	675	Also reported
Transmission	645	Item 2
Throttle body / EPC	116	Also reported
Timing chain / cam timing	69	Item 1
Fuel smell / fuel leak	53	Also reported
Crank sensor	13	Item 4
Secondary air	10	Item 3

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 2005–2014 Jetta, 2010–2014 Jetta SportWagen, 2006–2009 Rabbit, 2010–2014 Golf, 2006–2014 New Beetle/Beetle and 2012–2014 Passat complaints, leaving out ones that name a TDI, turbo, 2.0, 1.4, 1.8, VR6/V6 or hybrid, pulled Oct 27, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Volkswagen Tech Tip TT 24-07-103: 2005–2013 vehicles with 2.5L engine, fault code P2279: check the cam timing first (2013-09-09), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2013/MC-10238571-9999.pdf

3. Au7o known issues: Volkswagen Beetle 2008 (2.5L timing chain tensioner, reported $800–$1,800) (AI-assisted site, not independently verified) `FORUM/BLOG`
https://www.au7o.io/known-issues/volkswagen-beetle?year=2008

4. Volkswagen Technical Bulletin 26 14 03: MIL on, secondary air DTCs P2431/P2432/P2433, 2005–2014 2.5L (CBTA/CBUA) (2014-09-10), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2014/MC-10120325-9999.pdf

5. YourMechanic: Volkswagen Jetta air pump replacement estimate (average $373), via search extract Oct 27, 2026 `SHOP/RETAILER`
https://www.yourmechanic.com/estimates/volkswagen/jetta/air-pump-replacement

6. Volkswagen Tech Tip 01-15-07TT: MIL on, DTC P1386: replace the crankshaft speed sensor G28, 2011–2014 2.5L (CBTA/CBUA) (2017-07-21), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2017/MC-10127894-9999.pdf

7. RepairPal: 2013 Volkswagen Jetta crankshaft position sensor replacement estimate ($100–$259), via search extract Oct 27, 2026 SHOP/RETAILER
https://repairpal.com/estimator/volkswagen/jetta/2013/crankshaft-position-sensor-replacement-cost

8. Volkswagen VWP-10-06: Warranty information for the transmission valve body, 2005–2008 Jetta and Rabbit (2010-12-03), filed with NHTSA OFFICIAL
https://www.nhtsa.gov/?nhtsaId=10037805

9. Volkswagen Tech Tip 37-18-02TT: Transmission fluid temperature sensor G93 concerns, 6-speed automatic 09G/09N, 2006–2018 (2018-11-02), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2019/SB-10161202-9999.pdf

10. NHTSA recall records: 05V-305 (2005 Jetta 2.5L fuel line clamp) and 10V-621 (2006–2010 2.5L fuel supply line chafing), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=10V621000

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 Volkswagen dealer or qualified shop. Safety recall repairs are free at Volkswagen 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.