2004 Toyota Camry at 125,000 mi

4T1BF30K34U123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
Camry · XV30 Camry XLE V6 3.0 (1MZ-FE)	Toyota MZ-family V6 (1MZ-FE 3.0L, 3MZ-FE 3.3L)	125,000 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 '4' = 2004, 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.

2 jobs recommended now

0 to plan in the next 30,000 miles

1 to watch or check at each service

Safety recalls NHTSA lists for this model year (3)

- **11V-539** · Engine · crankshaft pulley: The crankshaft pulley outer ring can slip. The battery light may come on and the power steering belt can come off, making steering suddenly heavy. Free pulley replacement if it is the affected supplier part.
- **04V-595** · Seat belts · passenger buckle switch: With some rear-facing child seats fitted very tight, the passenger buckle switch can unseat, so the passenger air bag may not be switched off for the child seat.
- **04V-346** · Air bags · side curtain: A curtain air bag may be twisted near its inflator and not open fast enough in a side crash.

A model-year list, not a VIN check. Repairs are free at a Toyota dealer if open. On a car over 15 years old, ask the dealer whether a newer recall is still repaired free. Check this VIN at nhtsa.gov/recalls.

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Toyota dealer for a campaign printout, including 11V-539. Read the build month (MM/YY) on the driver's door-jamb label.

Recommended now at the next service — $1,045–$1,542

Timing belt and water pump replacement — $945–$1,382

independent shop, installed

Past the range (Every 90,000 miles or 72 months (interval quoted for the 3.0L V6)) · if the records don't show it done

`If it fails: $1,200–$2,000 · 1.4×`

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

about 1 h of shop labor, our estimate

Harsh or delayed shifts (engine computer calibration): Past the range (18,000–97,000 mi, the middle half of 70 owner reports) · if it fails: $3,800–$5,000

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 137,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 155,000 mi

Nothing else enters its reported range in this window.

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

Check-engine light with lean and air-fuel sensor codes — No published price

Any mileage (2005–2006 Camry, Solara, Highlander, Sienna and Lexus ES/RX 330 (3.3L), plus 2004 Camry/Solara) · Inspect at each service; fix at the first sign

Recommended now

$1,045–$1,542

Independent shop, installed. Dealers often charge more.

Planned through 155,000 mi

$1,045–$1,542

Nothing else on the list before 155,000 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 125K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Harsh or delayed shifts (engine computer calibration)	18,000–97,000 mi (middle half of 70 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range
2	Timing belt and water pump replacement	Every 90,000 miles or 72 months (interval quoted for the 3.0L V6) SHOP/RETAILER	Past the range
3	Check-engine light with lean and air-fuel sensor codes	2005–2006 Camry, Solara, Highlander, Sienna and Lexus ES/RX 330 (3.3L), plus 2004 Camry/Solara 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 2004 Toyota Camry

Safety recall repairs are free at Toyota dealers. On a car over 15 years old, ask the dealer whether a newer recall is still repaired free. 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 4T1BF30K34U123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Toyota dealer for a campaign printout; it also lists completed campaigns.

3.0 / 3.3L 1MZ-FE / 3MZ-FE V6 RECALLS WE TRACK

11V-539 · Crankshaft pulley outer ring can slip (2004–2005 V6 models)

NHTSA lists this model and year: check by VIN

On certain 2004–2005 1MZ-FE / 3MZ-FE engines, the crankshaft pulley adhesive may be inadequate; the outer ring can slip, causing noise and a battery-discharge warning light. Free pulley replacement. OFFICIAL [11]

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

EVERY RECALL NHTSA LISTS FOR THE 2004 TOYOTA CAMRY (3)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
11V-539 3.0 / 3.3L 1MZ-FE / 3MZ-FE V6 tracked	Engine · crankshaft pulley	The crankshaft pulley outer ring can slip. The battery light may come on and the power steering belt can come off, making steering suddenly heavy. Free pulley replacement if it is the affected supplier part. Details
04V-595	Seat belts · passenger buckle switch	With some rear-facing child seats fitted very tight, the passenger buckle switch can unseat, so the passenger air bag may not be switched off for the child seat. Details
04V-346	Air bags · side curtain	A curtain air bag may be twisted near its inflator and not open fast enough in a side crash. Details

Source: NHTSA recalls API, fetched 2026-10-27 and combined across NHTSA model names: CAMRY. 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

Manufacturer bulletins and warranty programs for this engine are cited on each weak point in section 4, where they apply.

4 · THE 3 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 (XV30). Left out because they apply to other models, years, engine sizes or body codes: Engine oil gel (sludge).

---

1 Harsh or delayed shifts (engine computer calibration)

Past the range

Severity: High: overheating, stalls, limp mode or a big bill · 1019 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 125,000 mi this car is past the reported range (18,000–97,000 mi (middle half of 70 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 18,000–97,000 mi (middle half of 70 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: 2002–2003 ES 300; 2004–2005 Camry, Solara and ES 330 V6

WHAT FAILS OFFICIAL [5][6][1]

Toyota and Lexus issued engine computer (ECM) calibration updates to improve shift feel on these V6 models, including a delayed downshift when accelerating. Transmission complaints are the largest group for these cars in the NHTSA data, and many owners report transmission replacement.

SYMPTOMS

- Harsh shifts
- Delay before a downshift when accelerating
- Slipping or flaring between gears

IF IT'S LEFT TOO LONG

Hard shifting and slipping wear the transmission; a replacement is the costly outcome.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Ask a dealer whether the ECM calibration was updated; service the transmission fluid if it is overdue.

ESTIMATED REPAIR COST

ECM calibration update (no published price)	**No published price** independent shop, installed
Owner-reported repair bills in NHTSA complaints (n=63)	**$3,800–$5,000** 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 63 NHTSA owner complaints that quote a repair bill for this problem (middle half of the bills; median $4,400). Examples: ODI 10344551, 763765, 10712847, 10593943. Owner-reported, often dealer prices; not shop quotes.

PARTS FOR XV30

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

WHAT TO ASK YOUR SHOP

- Any harsh or delayed shifts?
- Transmission ever replaced or fluid serviced?

2 Timing belt and water pump replacement

Past the range

Severity: High: overheating, stalls, limp mode or a big bill · 25 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 125,000 mi this car is past the reported range (Every 90,000 miles or 72 months (interval quoted for the 3.0L V6)). If the original parts are still fitted, have them checked and plan for them. Range: Every 90,000 miles or 72 months (interval quoted for the 3.0L V6) SHOP/RETAILER [8]



WHAT FAILS SHOP/RETAILER [8][9]

These V6 engines use a rubber timing belt that must be changed on schedule. The water pump is driven behind the belt, so shops replace the pump, tensioner and idlers at the same time.

SYMPTOMS

- No warning before a belt breaks
- Coolant seep at the water pump behind the timing cover

IF IT'S LEFT TOO LONG

A broken belt stops the engine at once; sources disagree on whether these engines bend valves when it happens.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Yes, if there is no record of it within the last 90,000 miles or about 7 years.

ESTIMATED REPAIR COST

Timing belt replacement, 2004 Camry (KBB fair range)	**$945–$1,382** SHOP/RETAILER [7] independent shop, installed
Owner-reported repair bills in NHTSA complaints (n=5)	**$1,200–$2,000** COMPUTED FROM NHTSA DATA [1] reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

1.4× The failure-bill midpoint ($1,600) is about 1.4× the early-fix midpoint ($1,164). A cost ratio, not a probability.

Where the numbers come from: Computed from 5 NHTSA owner complaints that quote a repair bill for this problem (middle half of the bills; median $2,000). Examples: ODI 10712847, 10177916, 10480931, 10462480. Owner-reported, often dealer prices; not shop quotes.

PARTS FOR XV30

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

WHAT TO ASK YOUR SHOP

- When was the timing belt last replaced? Water pump with it?

3 Check-engine light with lean and air-fuel sensor codes

Any mileage

Severity: Medium: leaks and wear · 1 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2005–2006 Camry, Solara, Highlander, Sienna and Lexus ES/RX 330 (3.3L), plus 2004 Camry/Solara), so mileage doesn't say much here. Range: 2005–2006 Camry, Solara, Highlander, Sienna and Lexus

ES/RX 330 (3.3L), plus 2004 Camry/Solara OFFICIAL [10]

WHAT FAILS OFFICIAL [10]

Toyota issued bulletins for a check-engine light with lean codes (P0171, P0174) and air-fuel ratio sensor codes (P2195, P2197) on these models.

SYMPTOMS

- Check-engine light
- Codes P0171, P0174, P2195 or P2197

IF IT'S LEFT TOO LONG

Lean running can cause hesitation and failed emissions tests.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Diagnose with the bulletin before replacing sensors; check for intake leaks first.

ESTIMATED REPAIR COST

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

PARTS FOR XV30

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

WHAT TO ASK YOUR SHOP

- Any recurring check-engine light?

5 · ALSO REPORTED, NOT RANKED

Other themes in 3.0 / 3.3L 1MZ-FE / 3MZ-FE V6 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
Air bags	1,157	Air-bag recalls and complaints; not an engine fault.
Sudden acceleration / throttle	372	Many 2002–2006 Camry and ES complaints describe sudden acceleration; these are handled by separate Toyota pedal and floor-mat actions, not an engine wear item.

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

- Under the oil cap for sludge
- Timing belt records
- Shift quality on a road test
- Check-engine codes

Ask the seller

- Oil-change records?
- Timing belt and water pump done (mileage)?
- Transmission work?

Documents to request

- Dealer service-history printout for the VIN
- nhtsa.gov/recalls screenshot

WHAT A BUYER MAY DEDUCT

	FINDING	ESTIMATED ADJUSTMENT
	Harsh or delayed shifts (engine computer calibration): symptoms or fault codes present	No published price
●	Timing belt and water pump replacement: original, no replacement invoice	$945–$1,382
	Check-engine light with lean and air-fuel sensor codes: symptoms or fault codes present	No published price
	Pre-ticked rows (●), if no records clear them	**$945–$1,382**

● = 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/Toyota 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 Camry, Highlander and Solara complaints that mention the V6 / 3.0 / 3.3 (and not the 2.4 or a hybrid), plus all 2000–2004 Avalon, 2000–2006 Sienna and Lexus ES 300/330 and RX 300/330 complaints: 8,261 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
Air bags	1,157	Also reported
Transmission / shifting	1,019	Item 1
Sudden acceleration / throttle	372	Also reported
Oil sludge / gel	116	Other years or engine sizes
Timing belt	25	Item 2
Lean / air-fuel codes	1	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 2000–2006 Camry V6, 2000–2004 Avalon, 2000–2006 Sienna, 2001–2007 Highlander V6, 2000–2008 Solara V6, Lexus ES 300/330 and RX 300/330, pulled Oct 27, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Toyota Special Policy Adjustment TC02002: Vehicles experiencing engine oil gelling or sludge (2002-01-30), filed with NHTSA `OFFICIAL`
https://www.nhtsa.gov/?nhtsaId=628696

3. Lexus Special Policy Adjustment 010102: Mechanical engine problems attributable to oil gelling or sludge (ES 300, RX 300) (2002-01-01), filed with NHTSA `OFFICIAL`
https://www.nhtsa.gov/?nhtsaId=628655

4. Center for Auto Safety: Toyota oil sludge (1997–2002 3.0L V6 and 2.2L four; 2002 program and later settlement) `FORUM/BLOG`
https://autosafety.org/toyota-oil-sludge

5. Lexus TC004-03: ECM calibration: shifting enhancement (revised), 2002–2003 ES 300 and 2004–2005 ES 330 (2003-08-04), filed with NHTSA `OFFICIAL`
https://www.nhtsa.gov/?nhtsaId=10003571

6. Toyota 00505 / 00305: ECM calibration: transmission shift feeling enhancement, 2004–2005 Camry, Solara and ES 330 (2005-06-21), filed with NHTSA `OFFICIAL`
https://www.nhtsa.gov/?nhtsaId=10015490

7. Kelley Blue Book: 2004 Toyota Camry timing belt replacement, fair repair range (ZIP-specific), via search extract Oct 27, 2026 `SHOP/RETAILER`
https://www.kbb.com/toyota/camry/2004/timing-belt-replacement

8. SKF timing belt kit TBK257AWP instructions (interval for the 2001–2003 Highlander 3.0L V6: 90,000 miles or 72 months), via search extract Oct 27, 2026 SHOP/RETAILER
https://manualslib.es/manual/415573/Skf-Tbk257Awp.html

9. Tomorrow's Technician: Lexus/Toyota timing belt replacements (1MZ-FE / 3MZ-FE; replace the water pump with the belt) SHOP/RETAILER
https://www.tomorrowstechnician.com/timing-belt-replacements-video-lexus-toyota/

10. Toyota 06105 (also 01905, 02205, 05205, 05805): MIL on with DTC P0171, P0174, P2195 or P2197, 2005–2006 Camry, Solara, Highlander, Sienna and Lexus ES/RX 330 (2005-11-18), filed with NHTSA OFFICIAL
https://www.nhtsa.gov/?nhtsaId=10018228

11. NHTSA recall records: 11V-539 (crankshaft pulley, 1MZ-FE / 3MZ-FE), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=11V539000

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 Toyota dealer or qualified shop. Safety recall repairs are free at Toyota dealers. Confirm recalls for this VIN at nhtsa.gov/recalls.

No warranty

Provided “as is”, without warranties of any kind, under the Terms of Use at repairahead.com/terms.

Trademarks and independence

Not affiliated with Toyota Motor Corporation or Toyota Motor North America. Toyota and model names are trademarks of Toyota Motor Corporation, used only to identify vehicles.

Wrong input (VIN, mileage, build date)? Email hello@repairahead.com with report ID RA-TOYMZ-123456-20261027 and we'll correct and reissue it.

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.