SAC **Springfield Auto Care** EXAMPLE SHOP
service@springfield-auto-care.example

2010 Lexus RX 350 at 120,000 mi

2T2BK1BA7AC123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
RX 350 · AL10 RX 350 AWD (3.5L V6)	Toyota 2GR-FE / 2GR-FKS 3.5L V6	120,000 mi	AWD
BUILD MONTH	**REPORT DATE**	**MODE**	**PREPARED FOR**
Not entered (door jamb)	October 27, 2026	Shop	Sample Owner

VIN check: check digit valid; model-year code 'A' = 2010, 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: our technician decides what the car actually needs.

1
inspection recommended now

0
to plan in the next 30,000 miles · plus 3 factory maintenance items

0
to watch or check at each service

Safety recalls NHTSA lists for this model year (1)

- **12V-305** · Accelerator pedal · floor mat entrapment: An unsecured or wrong driver floor mat can trap the accelerator pedal open, making the car speed up and hard to stop.

A model-year list, not a VIN check. Repairs are free at a Lexus 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 Lexus dealer for a campaign printout. Read the build month (MM/YY) on the driver's door-jamb label.

Recommended now at the next service — **$140**

Inspection: check now, while it's cheaper to fix — **$140**

Water pump leak: Past the range (46,000–86,000 mi, the middle half of 18 owner reports) · if it fails: $720–$1,230

inspection EXAMPLE

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 132,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 150,000 mi

Nothing else enters its reported range in this window.

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

Nothing scheduled here.

Recommended now

$140

Springfield Auto Care prices (example)

Planned through 150,000 mi

From $697

Now + next 12 months + next 30,000 miles, with the factory maintenance on this report if the records don’t show it done. Excludes “watch” and optional items.

Prices are Springfield Auto Care's estimates for typical parts and labor. They don't include tax, shop supplies or disposal fees, and may change after inspection or if part prices change. Not a written repair estimate: Springfield Auto Care confirms the price and gets your OK before any work.

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

Scheduled maintenance from 120,000 mi to 150,000 mi

The maker's normal schedule for this car. Service history isn't known here, so an item is shown at its next interval mark; skip it if the records show it was done.

ITEM	INTERVAL	THIS CAR	OUR PRICE
Spark plugs 2GR-FE: iridium plugs every 120,000 mi.	every 120,000 mi	**Due at 120,000 mi** [M1][M2][M3][M4][M5][M6][M7]	**$249**
Engine coolant Toyota Super Long Life Coolant: first change at 100,000 mi or 10 years, then every 50,000 mi or 5 years.	first at 100,000 mi, then every 50,000 mi or 5 years	**Was due at 100,000 mi and by age (check records)** [M1][M11][M20][M22]	**From $179**
Brake fluid Lexus schedule: replace every 30,000 mi or 36 months.	every 30,000 mi or 3 years	**Due by age: every 3 years (check records)** [M7][M10][M20][M21][M22]	**$129**
Automatic transmission fluid No change on the normal schedule (inspect only); Toyota lists a 60,000-mi replacement only for towing, heavy loads or long idling/low-speed use.	no fixed interval	— [M11][M20]	—

M1. 2008 Toyota Camry Scheduled Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-08Camry/pdf/T-MMS-08Camry.pdf

M2. 2008 Toyota Avalon Scheduled Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-08Avalon/pdf/T-MMS-08Avalon.pdf

M3. 2008 Toyota Highlander Scheduled Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-08Highlander/pdf/T-MMS-08Highlander.pdf

M4. 2008 Toyota Sienna Scheduled Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-08Sienna/pdf/T-MMS-08Sienna.pdf

M5. 2011 Toyota Venza Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-11Venza/pdf/T-MMS-11Venza.pdf

M6. 2008 Lexus GX / LX / RX Warranty and Services Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/L-MMS-08LX570/pdf/L-MMS-08LX570.pdf

M7. 2008 Lexus ES / GS / IS / LS / SC Warranty and Services Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/L-MMS-08ES350/pdf/L-MMS-08ES350.pdf

M8. 2016 Toyota Camry Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-16Camry/pdf/T-MMS-16Camry.pdf

M9. 2016 Toyota Avalon Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-16Avalon/pdf/T-MMS-16Avalon.pdf

M10. 2015 Lexus ES 350 Warranty and Services Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/L-MMS-15ES350/pdf/L-MMS-15ES350.pdf

M11. 2019 Toyota Camry Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-19Camry/pdf/T-MMS-19Camry.pdf

M12. 2023 Toyota Camry Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-23Camry/pdf/T-MMS-23Camry.pdf

M13. 2019 Toyota Avalon Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-19Avalon/pdf/T-MMS-19Avalon.pdf

M14. 2021 Toyota Avalon Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-21Avalon/pdf/T-MMS-21Avalon.pdf

M15. 2017 Toyota Highlander Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-17Highlander/pdf/T-MMS-17Highlander.pdf

M16. 2020 Toyota Highlander Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-20Highlander/pdf/T-MMS-20Highlander.pdf

M17. 2017 Toyota Sienna Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-17Sienna/pdf/T-MMS-17Sienna.pdf

M18. 2016 Toyota Tacoma Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-16Tacoma/pdf/T-MMS-16Tacoma.pdf

M19. 2023 Toyota Tacoma Warranty & Maintenance Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/T-MMS-23Tacoma/pdf/T-MMS-23Tacoma.pdf

M20. 2019 Lexus ES 350 Warranty and Services Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/L-MMS-19ES350/pdf/L-MMS-19ES350.pdf

M21. 2017 Lexus RX 350 Warranty and Services Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/L-MMS-17RX350/pdf/L-MMS-17RX350.pdf

M22. 2015 Lexus IS 350 Warranty and Services Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/L-MMS-15IS350/pdf/L-MMS-15IS350.pdf

M23. 2015 Lexus RC 350 Warranty and Services Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/L-MMS-15RC350/pdf/L-MMS-15RC350.pdf

M24. 2019 Lexus GS 350 Warranty and Services Guide OFFICIAL
https://assets.sia.toyota.com/publications/en/omms-s/L-MMS-19GS350/pdf/L-MMS-19GS350.pdf

WHERE 120K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	VVT-i oil supply hose (rubber section)	51,000–91,000 mi (middle half of 32 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Already done
2	Water pump leak	46,000–86,000 mi (middle half of 18 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range

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 2010 Lexus RX 350

Safety recall repairs are free at Lexus 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 2T2BK1BA7AC123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Lexus dealer for a campaign printout; it also lists completed campaigns.

3.5L 2GR V6 RECALLS WE TRACK

Other 3.5L 2GR V6 recalls we track, not listed by NHTSA for this model and year: 14V-576 (fuel delivery pipe can leak (2014 V6 models)), 17V-356 (crankshaft position sensor can cause a stall (2016–2017 Tacoma V6)), 18V-108 (fuel delivery pipes not connected properly (2018 Camry V6)), 20V-162 (fuel supply error with stop-start (2020 Highlander V6)), 10V-309 (valve springs can break (2006–2008 IS 350, 2007–2008 GS 350)), 13V-395 (VVT gear bolts can loosen (2006–2011 IS 350, 2007–2011 GS 350, 2010–2011 IS 350C)), 14V-647 (fuel can leak at the fuel pressure sensor (2006–2011 IS and GS)), 18V-432 (fuel pulsation damper can crack and leak (2007–2011 GS 350, 2006–2013 IS 350, 2010–2014 IS 350C)).

EVERY RECALL NHTSA LISTS FOR THE 2010 LEXUS RX 350 (1)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
12V-305	Accelerator pedal · floor mat entrapment	An unsecured or wrong driver floor mat can trap the accelerator pedal open, making the car speed up and hard to stop. Details

Source: NHTSA recalls API, fetched 2026-10-27 and combined across NHTSA model names: RX350. 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 2 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 (AL10). Left out because they apply to other models, years, engine sizes or body codes: Oil cooler pipe seep (towing package); Vacuum pump knock (2GR-FKS, 2017 on).

1 VVT-i oil supply hose (rubber section)

Already done

Severity: Critical: rare, but can badly damage the engine · 177 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

Marked as already done, so it is left out of the plan. Range: 51,000–91,000 mi (middle half of 32 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: 2005–2010 2GR-FE engines that still have the original hose

WHAT FAILS SHOP/RETAILER [2][9]

The oil line that feeds the variable valve timing actuators has a rubber section that degrades with age. It can split and dump engine oil quickly. Toyota replaced it with an all-metal line under campaign 90K, which expired on December 31, 2021.

SYMPTOMS

- Oil spray at the back of the engine
- Oil pressure light
- Abnormal engine noise

IF IT'S LEFT TOO LONG

A burst hose can empty the engine of oil in minutes; driving on can destroy the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Yes. Check that the all-metal line is fitted; if not, replace it now.

ESTIMATED REPAIR COST

No published price (free campaign expired Dec 31, 2021)	**Our price is in the plan above** ask us for a written quote
No published bill; oil starvation can mean a replacement engine	**No published price** reported range for the bill after a failure

PARTS FOR AL10

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

QUESTIONS TO ASK US

- Was the VVT-i oil line replaced with the all-metal part (campaign 90K)?

2 Water pump leak

Past the range

Severity: High: overheating, stalls, limp mode or a big bill · 67 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 120,000 mi this car is past the reported range (46,000–86,000 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: 46,000–86,000 mi (middle half of 18 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: Any mileage; Toyota has a leak-inspection bulletin for 2008–2025 models

WHAT FAILS OFFICIAL [3]

The water pump on this V6 is driven by the accessory belt and can seep from the weep hole or leak. Toyota tells technicians to separate a normal seep from a leak.

SYMPTOMS

- Pink or white crust at the pump
- Coolant level dropping
- Temperature rising

IF IT'S LEFT TOO LONG

Low coolant can overheat the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Replace at the first active leak.

ESTIMATED REPAIR COST

Water pump replacement, 2010 Highlander (KBB fair range)	**Our price is in the plan above** ask us for a written quote
Same job; overheating damage costs more	**$720–$1,230** SHOP/RETAILER [4] reported range for the bill after a failure

PARTS FOR AL10

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

QUESTIONS TO ASK US

- Any coolant top-ups?
- Pump ever replaced?

5 · ALSO REPORTED, NOT RANKED

Other themes in 3.5L 2GR 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
Transmission	634	Counts every transmission complaint; not an engine fault.

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. Shop prices come from the issuing shop. 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 28, 2026 from NHTSA's complaints API for V6 Camry, Highlander, RAV4, Tacoma and Venza complaints that mention the V6 or 3.5L, all Avalon, Sienna and Lexus ES / RX 350 complaints, all 2011-on GS, IS and RC 350 complaints, and 2006–2010 IS and GS complaints filed under the shared IS 250/350 and GS 350/430/460 names that name the 350 or V6 and not the other engine: 8,947 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
Transmission	634	Also reported
Oil leak	210	Other years or engine sizes
VVT-i oil line / sudden oil loss	177	Item 1
Knocking noise	71	Other years or engine sizes
Water pump / coolant loss	67	Item 2

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 V6 Camry, Avalon, V6 Highlander, Sienna, V6 RAV4, V6 Tacoma, Venza V6, Lexus ES/RX/GS/IS/RC 350, pulled Oct 28, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Toyota Limited Service Campaign 90K extension: 2GR-FE (V6) engine VVT-i oil hose replacement, 2005–2010 models (2014-08-07), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2014/MC-10109600-9999.pdf

3. Toyota T-SB-0103-20 Rev1: Water pump leak inspection and diagnostic tips, 2008–2025 Toyota (2024-06-19), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2024/MC-11005061-0001.pdf

4. Kelley Blue Book: 2010 Toyota Highlander water pump replacement, fair repair range (ZIP-specific), via search extract Oct 27, 2026 `SHOP/RETAILER`
https://www.kbb.com/toyota/highlander/2010/water-pump-replacement/

5. Toyota Warranty Enhancement Program ZE2: Engine oil cooler pipe seep/leak, 2007–2011 Sienna, 2008–2011 Highlander, 2009–2011 Venza (2014-07-31), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2014/MC-10132755-9999.pdf

6. Toyota T-SB-0201-11 Rev1: Oil cooler pipe leak/seep (2GR-FE with towing package) (2011-12-21), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2014/MC-10109364-9999.pdf

7. Toyota T-SB-0115-22 Rev1: Knocking noise from vacuum pump at idle (2GR-FKS) (2022-12-22), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2023/MC-10234314-9999.pdf

8. NHTSA recall records: 14V-576, 17V-356, 18V-108 and 20V-162, checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=14V576000

9. Tomorrow's Technician: Repairing Toyota 2GR-FE V6 oil leaks SHOP/RETAILER
https://www.tomorrowstechnician.com/repairing-toyota-2gr-fe-v6-oil-leaks/

10. Tekmetric: average auto repair labor rates by state, 2026 SHOP/RETAILER
https://tours.tekmetric.com/answers/average-auto-repair-labor-rates-by-state-2026

11. NHTSA recall records: 10V-309, 13V-395, 14V-647 and 18V-432 (2006–2014 Lexus GS 350, IS 350 and IS 350C with the direct-injection 2GR-FSE), checked Oct 28, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=13V395000

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. It was issued by Springfield Auto Care using RepairAhead data; the inspection findings and prices are the shop's.

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