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

2007 Jeep Liberty at 120,000 mi

1J4GL48K37W123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
Liberty · KJ Liberty Sport 3.7 4x4	Chrysler 3.7L PowerTech V6 (EKG; SOHC, 90-degree)	120,000 mi	4WD
BUILD MONTH	**REPORT DATE**	**MODE**	**PREPARED FOR**
Not entered (door jamb)	October 28, 2026	Shop	Sample Owner

VIN check: check digit valid; model-year code '7' = 2007, 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 2 factory maintenance items

2
to watch or check at each service

Safety recalls NHTSA lists for this model year (6)

- **18V-278** · Suspension · rear lower control arms: The rear lower control arms can rust and break, which can cause a loss of vehicle control.
- **13V-252** · Fuel tank · rear impact protection: The fuel tank can leak in some rear-end crashes, a fire risk. The remedy adds a trailer hitch to protect the tank where appropriate.
- **12V-085** · Suspension · rear lower control arms (salt states): In salt-belt states the rear lower control arms can rust and break, which can cause a loss of vehicle control.
- **07V-089** · Heating and A/C · blower motor: On vehicles with Valeo heating and A/C, the blower motor may overheat and could start an interior fire.
- **06V-493** · Brakes · ABS control module software: ABS software may let the rear brakes lock up in some braking conditions, which could cause a loss of control.
- **06V-341** · Automatic transmission · PCM software: Shifting from Drive to Neutral and back to Drive above 40 mph can briefly lock the drive wheels, which could cause a loss of control.

A model-year list, not a VIN check. Repairs are free at a Jeep 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 Jeep 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

inspection EXAMPLE

Water pump coolant leak (overheat risk): Past the range (48,000–87,000 mi, the middle half of 16 owner reports) · if it fails: $497–$723

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

Dropped or loose valve seat — Ask us for a quote

Any mileage (Typically 80,000–150,000 miles per one repair-estimate site) · Ask for this check at every service

Valve cover gasket leaks and injector wiring faults — $310

our price EXAMPLE

Past the range (67,000–105,000 mi, the middle half of 11 owner reports) · Inspect at each service; fix at the first sign

Recommended now

$140

Springfield Auto Care prices (example)

Planned through 150,000 mi

From $568

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 Replace spark plugs every 30,000 mi.	every 30,000 mi	**Due at 120,000 mi** [M1][M2][M3][M4]	**$249**
Engine coolant Flush and replace engine coolant at 60 months or 102,000 mi, whichever comes first.	every 102,000 mi or 5 years	**Was due at 102,000 mi and by age (check records)** [M1][M2][M3][M4]	**From $179**

M1. 2006 Jeep Commander Owner's Manual (Maintenance Schedules) OFFICIAL
https://vehicleinfo.mopar.com/assets/publications/en-us/Jeep/2006/Commander/865.pdf

M2. 2007 Dodge Dakota Owner's Manual (Maintenance Schedules) OFFICIAL
https://vehicleinfo.mopar.com/assets/publications/en-us/Dodge/2007/Dakota/827.pdf

M3. 2009 Dodge Durango Owner's Manual (Maintenance Schedules) OFFICIAL
https://vehicleinfo.mopar.com/assets/publications/en-us/Dodge/2009/Durango/761.pdf

M4. 2010 Jeep Liberty Owner's Manual (Maintenance Schedules) OFFICIAL
https://vehicleinfo.mopar.com/assets/publications/en-us/Jeep/2010/Liberty/739.pdf

WHERE 120K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Dropped or loose valve seat	Typically 80,000–150,000 miles per one repair-estimate site FORUM/BLOG	Any mileage
2	Valve cover gasket leaks and injector wiring faults	67,000–105,000 mi (middle half of 11 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range
3	Water pump coolant leak (overheat risk)	48,000–87,000 mi (middle half of 16 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 2007 Jeep Liberty

Safety recall repairs are free at Jeep 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 1J4GL48K37W123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Jeep dealer for a campaign printout; it also lists completed campaigns.

3.7L POWERTECH V6 RECALLS WE TRACK

Other 3.7L PowerTech V6 recalls we track, not listed by NHTSA for this model and year: 05V-396 (A/C condensate can enter the transmission (2005 Grand Cherokee 3.7L)).

EVERY RECALL NHTSA LISTS FOR THE 2007 JEEP LIBERTY (6)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
18V-278	Suspension · rear lower control arms	The rear lower control arms can rust and break, which can cause a loss of vehicle control. Details
13V-252	Fuel tank · rear impact protection	The fuel tank can leak in some rear-end crashes, a fire risk. The remedy adds a trailer hitch to protect the tank where appropriate. Details
12V-085	Suspension · rear lower control arms (salt states)	In salt-belt states the rear lower control arms can rust and break, which can cause a loss of vehicle control. Details
07V-089	Heating and A/C · blower motor	On vehicles with Valeo heating and A/C, the blower motor may overheat and could start an interior fire. Details
06V-493	Brakes · ABS control module software	ABS software may let the rear brakes lock up in some braking conditions, which could cause a loss of control. Details
06V-341	Automatic transmission · PCM software	Shifting from Drive to Neutral and back to Drive above 40 mph can briefly lock the drive wheels, which could cause a loss of control. Details

Source: NHTSA recalls API, fetched 2026-10-28 and combined across NHTSA model names: LIBERTY. 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 (LIBERTY): 09E-039 (Rock Krawler suspension kits) covers aftermarket parts only. 12V-085 applies to Libertys sold or registered in salt-belt states. A VIN check would show any that applied.

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 (KJ). Left out because they apply to other models, years, engine sizes or body codes: Valve cover studs can chafe engine wiring (2004 Liberty).

1 Dropped or loose valve seat

Any mileage

Severity: Critical: rare, but can badly damage the engine · 22 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (Typically 80,000–150,000 miles per one repair-estimate site), so mileage doesn't say much here. Range: Typically 80,000–150,000 miles per one repair-estimate site FORUM/BLOG [11]

WHAT FAILS FORUM/BLOG [2][11][1]

Valve seats pressed into the aluminum heads can loosen and drop, most often after the engine has run hot. The valve then cannot seal and the cylinder loses compression. Several Liberty owners report the number 2 cylinder seat breaking and falling into the piston.

SYMPTOMS

- Sudden misfire on one cylinder
- Loss of power and rough running
- Slapping or ticking from the top of the engine

IF IT'S LEFT TOO LONG

A dropped seat usually wrecks the head and often the piston; many owners replace the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Keep the cooling system in top shape; run a compression test and check for past overheating before buying.

ESTIMATED REPAIR COST

No published price for a compression check	**Our price is in the plan above** ask us for a written quote
Cylinder head replacement, Grand Cherokee (RepairPal)	**$3,036–$3,522** SHOP/RETAILER [3] reported range for the bill after a failure

Where the numbers come from: If the dropped seat also damaged the piston, a used or rebuilt engine is common; one repair-estimate site puts the whole job at $4,500–$8,000 [11]. Computed from 8 NHTSA owner complaints that quote a repair bill for this problem (middle half of the bills; median $5,750). Examples: ODI 10670338, 10495561, 10457165, 10446171. Owner-reported, often dealer prices; not shop quotes.

PARTS FOR KJ

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

QUESTIONS TO ASK US

- Any overheating in its history?
- Heads or engine ever replaced?

2 Valve cover gasket leaks and injector wiring faults

Past the range

Severity: Medium: leaks and wear · 52 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

At 120,000 mi this car is past the reported range (67,000–105,000 mi (middle half of 11 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 67,000–105,000 mi (middle half of 11 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: Any mileage

WHAT FAILS OFFICIAL [6][7][1]

On this engine the valve cover gasket carries the fuel injector wiring. Chrysler told technicians to check the wiring loom and connector in the gasket before replacing injectors for P0201–P0206 codes, and found some 2006 gaskets whose circuits could open.

SYMPTOMS

- Check-engine light with injector circuit codes (P0201–P0206)
- Misfire or rough running
- Injector replaced but the code comes back

IF IT'S LEFT TOO LONG

An open injector circuit kills a cylinder and can damage the catalytic converter.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Check the gasket and its connector first when injector codes appear.

ESTIMATED REPAIR COST

Valve cover gasket replacement, 2009 Liberty (RepairPal)	**Our price is in the plan above** ask us for a written quote
Same job; injectors replaced by mistake cost more	**$259–$374** SHOP/RETAILER [4] reported range for the bill after a failure

PARTS FOR KJ

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

QUESTIONS TO ASK US

- Any injector or misfire codes?
- Valve cover gaskets replaced?

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3 Water pump coolant leak (overheat risk)

Past the range

Severity: High: overheating, stalls, limp mode or a big bill · 103 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 120,000 mi this car is past the reported range (48,000–87,000 mi (middle half of 16 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 48,000–87,000 mi (middle half of 16 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: Any mileage; CSN K20 covers some 2010 models

WHAT FAILS OFFICIAL [8][9][1]

Chrysler ran customer satisfaction notification K20 because the water pump on some 2010 Liberty, Nitro and Ram 1500 trucks could leak coolant, and low coolant could

ESTIMATED REPAIR COST

Water pump replacement,	**Our price is in the plan above** ask us for a written quote

damage the engine. Chrysler also changed to a 3.7L-only water pump in 2005. On this engine, running low on coolant is how valve seats get dropped.

SYMPTOMS

- Coolant smell
- Coolant level dropping
- Temperature gauge rising
- Weak cabin heat

IF IT'S LEFT TOO LONG

Overheating can drop a valve seat or warp a head.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Check the VIN for K20 and fix any coolant leak right away.

Liberty (RepairPal)

Same job; overheating damage costs much more	**$497–$723** SHOP/RETAILER [5] reported range for the bill after a failure

PARTS FOR KJ

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

QUESTIONS TO ASK US

- CSN K20 done (2010)?
- Any coolant top-ups or overheating?

5 · ALSO REPORTED, NOT RANKED

Other themes in 3.7L PowerTech 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
Body / steering / electrical	5,227	Liberty window regulator, air bag, steering and brake complaints; not engine faults.
Stalling / loss of power	649	Mixed causes on the Liberty and trucks: TIPM and electrical faults, alternators, fuel and sensors; not one engine fault.
Transmission	484	Automatic transmission complaints; not engine faults.
Engine fire / wiring	442	Mixed: rear-impact fuel tank recall 13V-252 on 2002–2007 Libertys, wiring and electrical fires; 04V-337 is listed as its own item.

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/Stellantis 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 Liberty (no 2.4L or diesel) and Nitro (no 4.0L) complaints; Grand Cherokee, Commander, Dakota, Durango and Ram 1500 complaints that mention the 3.7L and no other engine: 10,197 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. About 10,200 complaints; most are from the Liberty, where every non-2.4L, non-diesel complaint is counted, so body, air bag and electrical complaints are mixed in. Grand Cherokee, Commander, Dakota, Durango and Ram counts are limited to complaints naming the 3.7L.
`COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Body / steering / electrical	5,227	Also reported
Stalling / loss of power	649	Also reported
Transmission	484	Also reported
Engine fire / wiring	442	Also reported
Coolant leak / overheating	103	Item 3
Injector codes / valve cover	52	Item 2
Valve seat / compression	22	Item 1

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 Liberty (no 2.4L or diesel) and Nitro (no 4.0L) complaints; Grand Cherokee, Commander, Dakota, Durango and Ram 1500 complaints that mention the 3.7L and no other engine, pulled Oct 28, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. 8020 Automotive: 3.7 Magnum PowerTech common engine problems (valve seat failure from engine heat: loss of compression, power and misfires), via search extract Oct 28, 2026 `FORUM/BLOG`
https://8020automotive.com/dodge-jeep-37l-powertech-v6-engine-problems/

3. RepairPal: Jeep Grand Cherokee cylinder head replacement estimate (engine not specified), via search extract Oct 28, 2026 `SHOP/RETAILER`
https://repairpal.com/estimator/jeep/grand-cherokee/cylinder-head-replacement-cost

4. RepairPal: 2009 Jeep Liberty valve cover gasket replacement estimate, via search extract Oct 28, 2026 SHOP/RETAILER
https://repairpal.com/estimator/jeep/liberty/2009/valve-cover-gasket-replacement-cost

5. RepairPal: Jeep Liberty repair costs, via search extract Oct 28, 2026 SHOP/RETAILER
https://www.repairpal.com/jeep/liberty

6. Chrysler GPOP tech tip 9002688: Cylinder head cover gasket: before replacing injectors for P0201–P0206, check the wiring loom and connector in the valve cover gasket and the wiring nut torque (2007–2012 Ram trucks) (2013-02-13), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2013/MC-10139009-9999.pdf

7. DaimlerChrysler Advance service information 05-015: Cylinder head cover gaskets may not meet specifications; the gasket carries the fuel injector circuits, which could open and cause a malfunction (2006 Ram 1500) (2005-07-13), filed with NHTSA OFFICIAL
https://www.nhtsa.gov/?nhtsaId=10016077

8. Chrysler Customer Satisfaction Notification K20: The engine water pump on certain vehicles may leak coolant; low coolant could cause engine damage or low heater output (2010 Liberty, Nitro, Ram 1500) (2010-09-01), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2010/CSC-10034071-6274.pdf

9. DaimlerChrysler Advance service information 05-002: New water pump for the 3.7L engine, no longer common with the 4.7L (2005-04-28), filed with NHTSA OFFICIAL
https://www.nhtsa.gov/?nhtsaId=10015075

10. NHTSA recall records: 04V-337 (2004 Liberty 3.7L valve cover studs may chafe the injector and alternator harnesses) and 05V-396 (2005 Grand Cherokee 3.7L, A/C condensate can enter the transmission), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=04V337000

11. Open Labor Project: 2012 Jeep Liberty 3.7L (dropped valve seat, typical onset 80,000–150,000 miles) — repair-estimate site, not independently verified, via search extract Oct 28, 2026 FORUM/BLOG
https://openlaborproject.com/portal/jeep/liberty/2012/3.7l-v6/

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

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