# 2021 Jeep Wrangler Unlimited 4xe at 45,000 mi

1C4JJXP6XMW123456

| MODEL / CHASSIS | ENGINE | MILEAGE | DRIVETRAIN |
|---|---|---|---|
| Wrangler Unlimited 4xe · JL (2018–present) | Stellantis 2.0L GME-T4 turbo four (Hurricane 4; also with eTorque and as the 4xe plug-in hybrid) | 45,000 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 'M' = 2021, 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 | 0 | 2 |
|---|---|---|
| job recommended now | to plan in the next 30,000 miles | to watch or check at each service |

**Safety recalls NHTSA lists for this model year (7 of 11)**

- **25V-741** · Hybrid battery · high voltage: The high-voltage battery can fail internally and catch fire, parked or driving. Park outside and do not charge until the repair is done.
- **24V-720** · Hybrid battery · high voltage: Earlier recall for the same battery fire risk; it is replaced by 25V-741, and cars fixed under it need the new remedy too.
- **23V-787** · Hybrid battery · high voltage: The high-voltage battery can fail internally and catch fire, parked or driving.
- **22V-865** · Engine · hybrid control software: A loss of communication between control modules can shut the engine off. New software changes this to a limp-home mode.
- **26V-363** · Steering · power steering pump wiring: The wiring for the electric power steering pump can overheat and start a fire, even when the Jeep is parked and switched off.
- **23V-191** · Fuel tank · frame stud: A stud on the frame could puncture the fuel tank in a crash and leak fuel. Dealers inspect and remove the stud if needed.
- **22V-766** · Seat belts · front pretensioners: A badly welded gas generator in a front seat belt retractor may keep the pretensioner from working in a crash.

A model-year list, not a VIN check. The full report lists the others. Repairs are free at a Jeep dealer if open. 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, including 25V-741, 24V-720, 23V-787, 22V-865. Read the build month (MM/YY) on the driver's door-jamb label.

## Recommended now at the next service

### 4xe high-voltage battery can fail internally (fire risk)

Free if open

Recalls 25V-741, 24V-720, 23V-787 are listed for this model year. Check the VIN; the repair is free at a Jeep dealer if it is open.

## Next 12 months up to about 57,000 mi

Nothing scheduled here.

## Within the next 30,000 miles up to 75,000 mi

Nothing else enters its reported range in this window.

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

### Water pump and inlet tube coolant leaks (overheating)

**$70**

our price EXAMPLE

Any mileage (FCA bulletins for 2018–2020 Wranglers and 2024-on models) · Inspect at each service; fix at the first sign

### Turbo oil leaks and turbo replacement

**Ask us for a quote**

Inside the range (11,000–74,000 mi, the middle half of 12 owner reports) · Inspect at each service; fix at the first sign

Recommended now

**Free recall check**

Springfield Auto Care prices (example)

Planned through 75,000 mi

**Free recall check**

Nothing else on the list before 75,000 mi. Now + next 12 months + next 30,000 miles. 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

## 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 45K SITS FOR EACH WEAK POINT

| # | WEAK POINT | REPORTED RANGE | THIS CAR |
|---|---|---|---|
| 1 | 4xe high-voltage battery can fail internally (fire risk) | 2020–2025 Wrangler 4xe and 2022–2026 Grand Cherokee 4xe (recalls 23V-787, 24V-720, 25V-741) OFFICIAL | Any mileage |
| 2 | Water pump and inlet tube coolant leaks (overheating) | Any mileage; FCA bulletins for 2018–2020 Wranglers and 2024-on models OFFICIAL | Any mileage |
| 3 | Turbo oil leaks and turbo replacement | 11,000–74,000 mi (middle half of 12 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA | Inside 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 2021 Jeep Wrangler Unlimited 4xe

Safety recall repairs are free at Jeep 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 1C4JJXP6XMW123456.
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.

## 2.0L TURBO FOUR (GME-T4 / HURRICANE 4) RECALLS WE TRACK

### 25V-741 · High-voltage battery can fail internally and catch fire (2020–2025 Wrangler 4xe, 2022–2026 Grand Cherokee 4xe)

NHTSA lists this model and year: check by VIN

The high-voltage battery may fail internally and catch fire, parked or driving. Park outside and do not charge until repaired. Dealers update the battery software and replace the pack as needed. Free repair. OFFICIAL [2]

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

### 24V-720 · High-voltage battery can catch fire (replaced by 25V-741)

NHTSA lists this model and year: check by VIN

Earlier recall for the same battery fire risk on 2020–2024 Wrangler 4xe and 2022–2024 Grand Cherokee 4xe; cars fixed under it need the 25V-741 remedy too. Free repair. OFFICIAL [2]

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

### 23V-787 · High-voltage battery can catch fire (2021–2023 Wrangler 4xe)

NHTSA lists this model and year: check by VIN

The high-voltage battery may fail internally and catch fire. Dealers update the battery software and replace the pack if needed. Free repair. OFFICIAL [2]

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

### 22V-768 · Wrong fasteners on the battery 200-amp fuse (2022–2023 Wrangler 4xe)

Not listed for MY2021

The high-voltage battery pack was built with the wrong fasteners on the 200-amp fuse, which can overheat. Free repair. OFFICIAL [2]

### 23V-303 · Wrong fasteners on the battery 200-amp fuse (2022–2023 Wrangler 4xe)

Not listed for MY2021

The high-voltage battery pack was built with the wrong fasteners on the 200-amp fuse, which can overheat. Free repair. OFFICIAL [2]

### 22V-865 · Loss of communication can shut the engine off (2021–2023 Wrangler 4xe)

NHTSA lists this model and year: check by VIN

A loss of communication between control modules may shut the engine down. New software changes this to a limp-home mode. Free repair. OFFICIAL [2]

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

Other 2.0L turbo four (GME-T4 / Hurricane 4) recalls we track, not listed by NHTSA for this model and year: 21V-665 (cracked fuel supply line connector can leak fuel (2020 Wrangler 2.0L)), 18V-344 (missing valve stem keepers or reversed camshaft cap (2019 Cherokee 2.0L, 14 vehicles)), 18V-636 (misfire can overheat the catalytic converter (2017–2018 Giulia, 2018 Stelvio 2.0L)).

EVERY RECALL NHTSA LISTS FOR THE 2021 JEEP WRANGLER UNLIMITED 4XE (11)

| RECALL | COMPONENT | WHAT CAN HAPPEN (NHTSA, SHORTENED) |
|---|---|---|
| **25V-741** 2.0L turbo four (GME-T4 / Hurricane 4) tracked | Hybrid battery · high voltage | The high-voltage battery can fail internally and catch fire, parked or driving. Park outside and do not charge until the repair is done. Details |
| **24V-720** 2.0L turbo four (GME-T4 / Hurricane 4) tracked | Hybrid battery · high voltage | Earlier recall for the same battery fire risk; it is replaced by 25V-741, and cars fixed under it need the new remedy too. Details |
| **23V-787** 2.0L turbo four (GME-T4 / Hurricane 4) tracked | Hybrid battery · high voltage | The high-voltage battery can fail internally and catch fire, parked or driving. Details |
| **22V-865** 2.0L turbo four (GME-T4 / Hurricane 4) tracked | Engine · hybrid control software | A loss of communication between control modules can shut the engine off. New software changes this to a limp-home mode. Details |
| **26V-363** | Steering · power steering pump wiring | The wiring for the electric power steering pump can overheat and start a fire, even when the Jeep is parked and switched off. Details |
| **23V-191** | Fuel tank · frame stud | A stud on the frame could puncture the fuel tank in a crash and leak fuel. Dealers inspect and remove the stud if needed. Details |
| **22V-766** | Seat belts · front pretensioners | A badly welded gas generator in a front seat belt retractor may keep the pretensioner from working in a crash. Details |
| **24V-676** | Electrical · rear camera and center brake light wiring | A short in the wiring can disable the rearview camera image and the center brake light. Details |
| **24V-652** | Electrical · instrument cluster | The instrument cluster can short internally and go blank, losing the speedometer and warning lights. Details |
| **24V-111** | Visibility · defroster (hybrid control software) | A hybrid control software error can stop the windshield defroster and defogger from working. Details |
| **22V-638** | Rear camera · radio software | A radio software error may stop the rearview camera image from showing. Details |

Source: NHTSA recalls API, fetched 2026-10-28 and combined across NHTSA model names: WRANGLER, WRANGLER 4XE. 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 (WRANGLER): 24V-572, 23V-116 and 21V-028 (manual-transmission clutch and software) do not apply because the 4xe is automatic only; 23V-263 and 22V-767 (diesel high-pressure fuel pump) cover the 3.0L EcoDiesel only. They are left out of this 4xe sample; 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 (JL). Left out because they apply to other models, years, engine sizes or body codes: 4xe engine debris (knock codes, engine failure); eTorque 48V battery (Power Pack Unit) failure; Fuel pump failure (Alfa Romeo Giulia and Stelvio recall).

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## 1 4xe high-voltage battery can fail internally (fire risk)

Any mileage

Severity: Critical: rare, but can badly damage the engine · 96 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2020–2025 Wrangler 4xe and 2022–2026 Grand Cherokee 4xe (recalls 23V-787, 24V-720, 25V-741)), so mileage doesn't say much here. Range: 2020–2025 Wrangler 4xe and 2022–2026 Grand Cherokee 4xe (recalls 23V-787, 24V-720, 25V-741) OFFICIAL [2]

Applies to: 2021–2025 Wrangler 4xe (NHTSA lists 2020–2025, but the 4xe was first sold as a 2021 model) and 2022–2026 Grand Cherokee 4xe (recalls 23V-787, 24V-720, 25V-741). Not shown on Alfa Romeo Giulia or Stelvio reports (Jeep and Dodge sources).

### WHAT FAILS OFFICIAL [2][3]

The high-voltage battery in the Wrangler 4xe and Grand Cherokee 4xe can fail internally and catch fire, parked or driving. Until the recall is done, owners are told to park outside and not charge. Dealers update the battery software and replace the pack if needed. A separate XU1 warranty extension replaces packs that set cell-balancing or battery-health codes.

### SYMPTOMS

- "Service charging system" message; charging stops
- Check-engine light with hybrid battery codes
- Burning smell or smoke from under the rear seat

### IF IT'S LEFT TOO LONG

A battery fire can destroy the car and a building it is parked in.

### IS IT WORTH DOING EARLY? OUR ESTIMATE

Yes. Check the VIN for 25V-741 (and older 23V-787 / 24V-720) before buying or charging indoors.

### ESTIMATED REPAIR COST

| | |
|---|---|
| Free under recall 25V-741 | **Free if covered** OFFICIAL [2]<br>published independent-shop range |
| No published price outside the recall and XU1 extension | **No published price**<br>reported range for the bill after a failure |

### PARTS FOR JL

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

### QUESTIONS TO ASK US

- Recall 25V-741 done?
- Any charging or hybrid warnings?
- Battery pack ever replaced?

## 2 Water pump and inlet tube coolant leaks (overheating)

Any mileage

Severity: High: overheating, stalls, limp mode or a big bill · 53 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (Any mileage; FCA bulletins for 2018–2020 Wranglers and 2024-on models), so mileage doesn't say much here. Range: Any mileage; FCA bulletins for 2018–2020 Wranglers and 2024-on models OFFICIAL [5][6]

Not shown on Alfa Romeo Giulia or Stelvio reports (Jeep and Dodge sources).

### WHAT FAILS OFFICIAL [5][6][7][1]

Coolant can leak where the water pump inlet tube bolts to the engine; FCA re-torques the fasteners on 2018–2020 Wranglers. On later engines FCA lists several leak points at the water pump (gasket, inlet pipe, weep hole). Owners report the engine overheating from low coolant and some head gasket or engine failures. FCA asks dealers to test for internal leaks before replacing a long block.

### SYMPTOMS

- Sweet coolant smell
- Coolant level dropping
- Temperature spikes when climbing or towing

### IF IT'S LEFT TOO LONG

Overheating can blow the head gasket or ruin the engine.

### IS IT WORTH DOING EARLY? OUR ESTIMATE

Check the coolant level often and fix small leaks early.

### ESTIMATED REPAIR COST

| | |
|---|---|
| Labor only, 0.5 h FCA warranty time | **Our price is in the plan above** ask us for a written quote |
| Water pump replacement, 2019 Wrangler Unlimited (KBB, one ZIP) | **$938–$1,044** SHOP/RETAILER [10] reported range for the bill after a failure |

Where the numbers come from: Estimate: FCA warranty labor time of 0.5 h (bulletin [5]) × $100–$160/h independent-shop labor rate [13]. Parts are extra unless stated; check the VIN for open warranty coverage first.

### PARTS FOR JL

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

### QUESTIONS TO ASK US

- Any coolant top-ups or overheating?
- Water pump or inlet tube work done?

## 3 Turbo oil leaks and turbo replacement

Inside the range

Severity: Medium: leaks and wear · 57 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

At 45,000 mi this car is inside the reported range (11,000–74,000 mi (middle half of 12 owner complaints that state a mileage)), 34,000 miles past where reports start. Range: 11,000–74,000 mi (middle half of 12 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]




Applies to: Any mileage. Not shown on Alfa Romeo Giulia or Stelvio reports (Jeep and Dodge sources).

### WHAT FAILS OFFICIAL [8][1]

Oil can leak at the turbocharger oil feed. FCA tells dealers to check the oil feed O-ring, which is sold separately,

### ESTIMATED REPAIR COST

before replacing the whole turbo. A later FCA note says many turbo parts are serviceable on their own. Owners also report turbo failures and coolant spraying onto the hot turbo.

SYMPTOMS

- Oil wetness around the turbo
- Blue smoke
- Whistle, rattle or low boost

IF IT'S LEFT TOO LONG

An oil leak onto the hot turbo can smoke or catch fire; a failed turbo leaves the engine down on power.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Fix oil leaks at the feed O-ring early.

| | |
|---|---|
| Oil feed O-ring (no published price) | **Our price is in the plan above** ask us for a written quote |
| Turbocharger assembly replacement, Wrangler (RepairPal) | **$1,282–$1,567** SHOP/RETAILER [11] reported range for the bill after a failure |

PARTS FOR JL

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

QUESTIONS TO ASK US

- Turbo ever replaced?
- Any oil leaks or smoke?

5 · ALSO REPORTED, NOT RANKED

## Other themes in 2.0L turbo four (GME-T4 / Hurricane 4) 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** | 371 | Mixed causes: 4xe software and battery faults (recall 22V-865 changes a shutdown to limp-home), eTorque faults and overheating. |
| **Steering** | 120 | Steering complaints, including the power steering pump wiring recall 26V-363; not engine faults. |
| **Transmission / clutch** | 119 | Manual-clutch pressure plate recalls and automatic transmission complaints; not engine faults. |

# 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 2018–2025 Wrangler complaints that mention the 2.0L, turbo or eTorque; all Wrangler 4xe and Grand Cherokee 4xe complaints; 2019–2023 Cherokee complaints that mention the 2.0L or turbo; all 2023–2025 Compass complaints; Hornet complaints that do not mention the R/T; and Alfa Romeo Giulia and Stelvio complaints that do not mention the Quadrifoglio or its V6. The 2022 Wrangler Unlimited PHEV file holds every 2022 Wrangler complaint, so for that year only complaints that mention the 4xe, plug-in or hybrid are kept: 1,122 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. About 1,000 complaints. Many Wrangler and Cherokee owners do not name the engine, so complaints from those that do not mention the 2.0L or turbo are left out (most of those cars have the 3.6L or 2.4L). Replaces the earlier research row fca-20t. `COMPUTED FROM NHTSA DATA`

| THEME | COMPLAINTS | IN THIS REPORT |
|---|---|---|
| Stalling / loss of power | 371 | Also reported |
| Steering | 120 | Also reported |
| Transmission / clutch | 119 | Also reported |
| 4xe high-voltage battery / fire | 96 | Item 1 |
| Fuel pump / low fuel pressure | 94 | Other years or engine sizes |
| Turbo | 57 | Item 3 |
| Coolant leak / overheating | 53 | Item 2 |
| Engine knock / engine failure (4xe) | 36 | Other years or engine sizes |
| eTorque 48V system | 10 | Other years or engine sizes |

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 2018–2025 Wrangler complaints that mention the 2.0L, turbo or eTorque; all Wrangler 4xe and Grand Cherokee 4xe complaints; 2019–2023 Cherokee complaints that mention the 2.0L or turbo; all 2023–2025 Compass complaints; Hornet complaints that do not mention the R/T; and Alfa Romeo Giulia and Stelvio complaints that do not mention the Quadrifoglio or its V6, pulled Oct 28, 2026 (ODI numbers in the cost notes) OFFICIAL
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. NHTSA recall records: 25V-741, 24V-720 and 23V-787 (4xe high-voltage battery can fail internally and catch fire), 22V-768 and 23V-303 (4xe battery fuse fasteners), 25V-766 (4xe engine debris), 22V-865 (4xe engine shutdown), 21V-665 (2020 Wrangler 2.0L fuel line connector) and 18V-344 (2019 Cherokee 2.0L valve keepers), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=25V741000

3. FCA US TSB 08-072-26 Rev. A: High voltage battery pack replacement, XU1 warranty extension, for cell-balancing and battery-health codes (2021–2025 Wrangler 4xe, 2022–2026 Grand Cherokee 4xe) (2026-04-22), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2026/MC-11031660-0001.pdf

4. FCA US TSB 09-009-26: PHEV engine replacement, XC2 warranty extension: knock codes P2336–P2339 caused by machining debris and casting sand (2024–2025 Wrangler 4xe, 2023–2025 Grand Cherokee 4xe) (2026-05-13), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2026/MC-11032844-0001.pdf

5. FCA US TSB 07-001-20 Rev. C: Water pump inlet tube fastener torque for a coolant leak or low coolant (2018–2020 Wrangler 2.0L built before June 24, 2020) (2020-06-24), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2020/MC-10177539-9999.pdf

6. FCA US STAR case S2607000003: GMET4 DOHC water pump coolant leak inspection: check the pump-to-block gasket, internal gasket, inlet pipe and weep hole before replacing parts (2024–2026 Wrangler, Grand Cherokee, Compass, Hornet) (2026-02-12), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2026/MC-11028893-0001.pdf

7. FCA US Parts note 9100458: GME-T4 engine: before replacing a long block for suspected overheating, run block, cylinder leakage and coolant leak checks (2021–2022 Cherokee and Wrangler) (2025-02-25), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2025/MC-11015068-0002.pdf

8. FCA US Parts note 9004335: Turbocharger oil leak: check the turbo oil feed O-ring, which is serviced separately, before replacing the turbo (2018–2020 Wrangler, 2019–2020 Cherokee) (2020-11-25), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2020/MC-10224003-9999.pdf

9. FCA US Warranty Bulletin D-20-23 Rev. A: Part order restriction program for the 48V Power Pack Unit (eTorque battery), 2018–2021 Wrangler (JL) (2021-05-03), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2021/MC-10223470-9999.pdf

10. Kelley Blue Book: 2019 Jeep Wrangler Unlimited water pump replacement, via search extract Oct 28, 2026 SHOP/RETAILER
https://www.kbb.com/jeep/wrangler-unlimited/2019/water-pump-replacement/

11. RepairPal: Jeep Wrangler turbocharger assembly replacement estimate, via search extract Oct 28, 2026 SHOP/RETAILER
https://repairpal.com/estimator/jeep/wrangler/turbocharger-assembly-replacement-cost

12. JL Wrangler Forums: BSG / 48V eTorque battery replacement cost thread (dealer-only part that needs programming), via search extract Oct 28, 2026 FORUM/BLOG
https://www.jlwranglerforums.com/forum/threads/bsg-48v-battery-replacement-cost.16492/

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

14. NHTSA recall records: 25V-586 (2017–2019 Alfa Romeo Giulia and 2018–2019 Stelvio fuel pump can fail, loss of drive power) and 18V-636 (2017–2018 Giulia and 2018 Stelvio 2.0L misfire can overheat the catalytic converter; engine software update), checked Oct 28, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=25V586000


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

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