

Used EV Inspection & Battery Health Report Guide (Expert Edition)

By VeCharged | Expert Insights from Rahul

SECTION 1: VEHICLE INFORMATION

Fill this before inspection to keep records organized.

- Make & Model: _____
- Model Year: _____
- VIN: _____
- Mileage (miles): _____
- Battery Capacity (kWh): _____
- Battery Warranty (Years / Miles Remaining): _____
- Date of Inspection: _____

Pro Tip: Take clear photos of the dashboard range, tire wear, and undercarriage before your test drive.

SECTION 2: EXTERIOR INSPECTION

Check each area carefully and note any issues.

- Body & Paint: Signs of panel replacement or repainting
- Lights & Sensors: Test headlights, taillights, and parking sensors
- Tires & Alignment: Even tread wear, no vibration on drive
- Charging Port: No corrosion, secure latch, cable fits firmly
- Glass & Mirrors: Free from major cracks or tint issues

Expert Insight: Uneven tire wear can indicate battery weight imbalance or suspension fatigue.

SECTION 3: INTERIOR INSPECTION

Inspect comfort, tech, and electronics.

- Infotainment Screen: No lag, all menus responsive
- HVAC System: Quick A/C and heater response
- Seats & Upholstery: Check for wear or stains

- Odometer & Error Lights: No persistent warning icons
- Driving Modes: Test Eco/Sport modes for consistency

Rahul's Note: Some used EVs hide reduced regenerative braking performance. Always test both slow and strong braking at low speeds.

SECTION 4: BATTERY HEALTH & RANGE

Record or test these metrics.

- Battery SOH (State of Health): Ideal $\geq 80\%$
- Full Charge Range (EPA est.): Matches OEM data $\pm 10\%$
- Charge Speed (kW): Within 5% of rated charger output
- Charging Cycles: Under 1000 preferred
- Thermal Performance: No rapid heat alerts

Optional Data Sources:

- RecurrentAuto.com (Free SOH report)
- OEM service center diagnostics
- OBD-II battery scan (LeafSpy, Car Scanner)

SECTION 5: PERFORMANCE & HANDLING TEST DRIVE

- Acceleration Smoothness: No jerks or power drop
- Steering & Suspension: Stable on rough roads
- Brakes & Regen: Smooth transition between systems
- Cabin Noise: Quiet under 40 mph
- Drive Modes: Engage instantly, no flicker

Tip from Rahul: If range drops drastically (5-7%) during a 15-min drive, the battery may have cell imbalance issues.

SECTION 6: RESALE VALUE SNAPSHOT

Use VeCharged's EV Resale Estimator Tool.

- Original Price (\$): _____
- Estimated Resale Value (\$): _____

- Depreciation (%): _____
- Comments: _____

SECTION 7: FINAL EVALUATION SUMMARY

Rate each 1-10.

- Exterior Condition: ____
- Interior Condition: ____
- Battery & Range: ____
- Ride Quality: ____
- Value for Money: ____

Average Score: ____ / 10

8-10 = Excellent Buy | 6-7 = Fair | ≤5 = Avoid

Expert Tips from Rahul:

"Don't just check the range - check consistency. Drive in both city and highway to test battery curve."

"Tesla, Rivian, and Hyundai retain resale value best due to network reliability."