

Used EV Risk Checklist

Comprehensive Pre-Owned Electric Vehicle Assessment

01 / CRITICAL

Battery Health

- State of Health (SoH) %**
Record exact %. Flag below 85%, wholesale/decline below 75%
- Cell Voltage Balance (Delta)**
Check cell-to-cell voltage spread. Wide delta = red flag
- DC Fast Charge History**
High DCFC usage accelerates degradation on some chemistries
- Lifetime kWh Throughput**
Total energy cycled, a key degradation indicator
- 12V Auxiliary Battery**
Top cause of "dead" EVs at auction. Test voltage and health

02 / CRITICAL

Thermal & HV System

- Thermal Management System**
Check for cooling loop fault codes and coolant condition
- HV System DTCs (OBD-II Scan)**
Scan for stored or pending high-voltage fault codes
- Battery Enclosure Inspection**
Undercarriage check for scrapes, impact damage, road debris hits
- Onboard Charger Function**
Verify L1/L2 charging initiates and completes normally
- Regen Braking Operation**
Test all regen modes. Inconsistency may indicate battery issues

03 / IMPORTANT

Software & Warranty

- BMS Firmware Version**
Is it current? Any pending OTA updates affecting range?
- OEM Battery Warranty Status**
Remaining coverage, transferability, prior claims
- All Recalls Verified Complete**
Especially battery-related (Bolt, Kona, etc.). Liability issue
- Service Records**
Coolant flushes, brake fluid age, cabin filter history

04 / IMPORTANT

Charging System

- Charge Port Condition**
Physical inspection: pins, housing, latch mechanism
- Connector Standard**
CCS1 vs. NACS. Adapter included or available?
- DC Fast Charge Test**
Verify DCFC acceptance rate and max kW achieved
- Charge Curve Behavior**
Does it taper normally or drop early? Early tapering signals degradation

05 / STANDARD

Drivetrain & Physical

- Motor & Reduction Gear**
Listen for whine or vibration. Check for fluid leaks
- Suspension & CV Joints**
EVs are heavy, check for premature wear
- Brake System**
Regen means less pad wear, but check for seized calipers and fluid age
- Tires (EV-Specific)**
Correct EV-rated tires? Tread depth impacts range significantly

06 / STANDARD

History & Valuation

- VIN History Report**
Accident and flood damage history (critical for battery packs), title status
- Ownership Type**
Lease return vs. private sale vs. fleet: usage patterns differ
- Market Value vs. SoH**
Price should reflect actual battery condition, not just mileage
- Resale Potential**
Days-to-sell for this model in your market. Demand trends

✓ RETAIL READY

SoH ≥ 85%

Full retail with confidence

⚠ CAUTION

SoH 75–84%

Price accordingly, disclose to buyer

✗ WHOLESALE / DECLINE

SoH < 75%

Do not retail. Wholesale or pass