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

TECHNICIAN WORKSHEET · KONA / NIRO / IONIQ EV
RA-HKKONAEV-123456-20261028

2019 Hyundai Kona Electric · 2019 Kona Electric Limited · FWD

KM8K33AG3KU123456

ODOMETER IN: 65,000 | DOOR-JAMB BUILD (MM/YY) | RO # | TECHNICIAN / DATE

A · RECALLS AND CAMPAIGNS TO VERIFY (DEALER PRINTOUT OR NHTSA.GOV)

20V-630 · Li-ion battery may short-circuit, fire risk (2019–2020 Kona Electric) ☐ Open ☐ Done ☐ N/A

21V-127 · Li-ion battery may short-circuit, fire risk (2019–2020 Kona Electric, 2020 Ioniq Electric) ☐ Open ☐ Done ☐ N/A

20V-748 · Brakes · integrated electronic brake software ☐ Open ☐ Done ☐ N/A

Factory battery and drive warranty · may still apply (Hyundai usually 10 years or 100,000 mi). Check the in-service date before quoting high-voltage battery or drive motor work; covered repairs go to a Hyundai dealer. ☐ Covered ☐ Expired ☐ Unknown

21V-944 (Unstable ground can cause fail-safe mode and unexpected acceleration (2017–2019 Ioniq Electric)): not listed by NHTSA for MY2019. Confirm on the dealer printout.

17V-532 (Coolant may reach the EPCU circuit board, stall (2017 Ioniq Electric)): not listed by NHTSA for MY2019. Confirm on the dealer printout.

B · INSPECTION POINTS, IN PLAN ORDER

1. High-voltage battery short-circuit recall (battery replacement), 2019–2020

Check now · Any mileage (2019–2020 Kona Electric and 2020 Ioniq Electric in the recall ranges)

Check the VIN for 20V-630 and 21V-127 ☐ OK ☐ Watch ☐ Fix

Scan the BMS for stored codes ☐ OK ☐ Watch ☐ Fix

Charge limit set: __ %

Parts (Kona Electric): Ask your parts supplier for the OE part number for this VIN.

2. Battery cell fault codes (EV warning light, P1AA6–P1AAF)

Check now · Past the range (10,000–36,000 mi, the middle half of 11 owner reports)

Scan the BMS for P1AA6–P1AAF ☐ OK ☐ Watch ☐ Fix

Check campaign status 9A4 / PI2603 / 24-EV-005H ☐ OK ☐ Watch ☐ Fix

Read battery state of health ☐ OK ☐ Watch ☐ Fix

SOH: __ %

Scan for: P1AA6, P1AA7, P1AA8, P1AA9, P1AAF

Parts (Kona Electric): Ask your parts supplier for the OE part number for this VIN.

3. Power control unit faults and fail-safe mode (recalls)

Check now · Inside the range (16,000–100,000 mi, the middle half of 21 owner reports)

Check the VIN for open recalls and campaigns ☐ OK ☐ Watch ☐ Fix

Scan the EPCU / VCU for codes ☐ OK ☐ Watch ☐ Fix

Inspect the EPCU ground connections ☐ OK ☐ Watch ☐ Fix

Parts (Kona Electric): Ask your parts supplier for the OE part number for this VIN.

4. Traction motor / reduction gear rumble noise

Watch · Any mileage (2019–2021 Kona Electric built before Jan 2021; 2019-on Niro EV)

Road test at 0–25 mph for rumble ☐ OK ☐ Watch ☐ Fix

Check the production date against the bulletin ☐ OK ☐ Watch ☐ Fix

Parts (Kona Electric): Ask your parts supplier for the OE part number for this VIN.

5. Restricted power-electronics coolant flow (Refill Inverter Coolant)

Watch · Any mileage (2019–2022 Kona Electric, 2020–2021 Ioniq Electric, 2019–2022 Niro EV)

Check campaign status T9E / SA512 ☐ OK ☐ Watch ☐ Fix

Read electric water pump speed (2,450 rpm or more points to a restriction) ☐ OK ☐ Watch ☐ Fix

EWP speed: __ rpm

Parts (Kona Electric): Ask your parts supplier for the OE part number for this VIN.

C · ALSO REPORTED FOR THE KONA / NIRO / IONIQ EV, QUICK CHECKS

- **Brakes** (68 complaints): Brake complaints relate to the integrated electronic brake (recall 20V-748 on 2019–2021 Kona Electric, campaign SC321 on Niro EV); not part of the electric drive.
- **Steering** (26 complaints): Column steering motor bearing noise bulletins; not part of the electric drive.
- **12V battery** (20 complaints): Few complaints; Kona Electric VCU/LDC software is covered under the power-electronics item.

WHAT TO SAY AT THE COUNTER (ADVISOR)

1. High-voltage battery short-circuit recall (battery replacement), 2019–2020
Hyundai found that some battery cells could short-circuit and start a fire. Owners report it at all mileages, so it is worth a look at every visit. A recall or warranty extension may pay for it: we check the VIN.
Ask: have you noticed charge limited to 80% after the interim update, or EV warning light?

2. Battery cell fault codes (EV warning light, P1AA6–P1AAF)
An EV warning light with battery-cell codes P1AA6 to P1AAF can point to a failing cell group. At 65,000 mi your car is past the usual range, so if the original part is still fitted it is worth checking. A recall or warranty extension may pay for it: we check the VIN.
Ask: have you noticed EV warning light, or DTC P1AA6–P1AAF in the BMS?

3. Power control unit faults and fail-safe mode (recalls)
On 2017–2019 Ioniq Electric an unstable ground can put the car in fail-safe mode with reduced power, and in some cases it may keep accelerating after the pedal is released; Hyundai repairs the ground wiring and updates the power control unit (EPCU) software. At 65,000 mi your car is in the mileage range where owners report it. A recall or warranty extension may pay for it: we check the VIN.
Ask: have you noticed reduced power / fail-safe warning, or car keeps pulling after lifting off the pedal?

Adjust after the inspection. The report is not a diagnosis or a guarantee, so say what the technician found, not what the report predicts.

NOTES FOR THE ADVISOR

Record findings here (OK / Watch / Fix and measurements); the advisor adjusts the quote before the handout is printed or sent.

Reference only. Follow Hyundai repair procedures and your shop's judgment.