01 / OVERVIEW AND INSPECTION SCOPE

Independent vehicle inspection

Detailed findings, recommended follow-up and supporting diagnostic records.

Public sample: Edited from a prior inspection for clarity and privacy. Client and record identifiers are withheld; mileage is rounded. This is not a new inspection or diagnosis. The original private report remains unchanged.

Prepared for	Client name [REDACTED]
Prepared by	Christopher Harvey | 4A Auto A/C & Repair
Vehicle	2023 BMW X7 xDrive40i
VIN	[REDACTED]
Odometer at inspection	34,000-35,000 miles (rounded for privacy)
Inspection / report date	Withheld in public sample

Sources reviewed

Dealer service-history records (CARFAX) and full vehicle scan data supplied by the client, including ISTA and X-431 records. Third-party records are referenced, not reproduced in this sample.

Purpose and scope

This report records the vehicle condition observed at the original inspection. It is based on visual observations, functional checks and the supplied scan data. 4A Auto did not perform dealer programming, module pairing, software encoding or repairs during this inspection.

Any follow-up programming, repairs, calibrations or system verification should be completed and documented by the selling dealer or a qualified BMW facility.

Executive summary

The inspection identified multiple concerns involving driver-assistance systems, seat/occupant detection and 48-volt electrical communication. Additional findings involved suspension warnings, brake rotor surfaces, possible oil seepage and interior repair evidence.

Evidence matters: A stored diagnostic fault is not, by itself, proof that a component has failed. Findings below distinguish scan records from physical observations and identify what still requires verification.

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02 / FINDINGS BY PRIORITY

Safety and major system concerns

RED identifies a safety-related or major system concern. Obtain documented evaluation and verification; the color alone is not a diagnosis.

RED

Driver assistance / collision warning / cruise control

Finding / evidence: Supplied scans recorded forward-camera and radar faults involving invalid signals, restricted availability or impaired operation. The affected functions include adaptive cruise control, forward collision warning and automatic emergency braking. Current operation and the underlying cause require verification.

Recommended dealer action: Inspect the camera and radar components; repair or replace components only as indicated by diagnosis. Complete required BMW programming, pairing and driver-assistance (ADAS) calibration.

Proof requested: Post-repair scan and appropriate functional verification, with programming and calibration or acceptance records where applicable.

Preliminary dealer repair range: $1,000-$5,000+

RED

Seat / occupant detection / restraint systems

Finding / evidence: Scans recorded seat-module and occupant-detection faults. Separate physical observations included prior seat/headliner repair evidence and damage in the passenger-side rear seat area.

Recommended dealer action: Provide the prior seat-repair documentation. Inspect seat wiring, connectors, occupant-detection components and related restraint-system (SRS) inputs. Repair as needed and verify readiness.

Proof requested: Post-repair scan plus documentation verifying seat occupancy detection and restraint-system readiness.

Preliminary dealer repair range: $300-$2,000+

RED

48-volt electrical system / secure communication

Finding / evidence: Scans recorded an aborted 48-volt emergency recharge event and secure-bus verification faults. These records raise concerns about reliable communication between major control modules.

Recommended dealer action: Test the 48-volt battery and power controls. Inspect associated control units and communication integrity; perform programming or pairing if indicated.

Proof requested: Acceptable battery/system-health results, no repeat recharge-abort events under appropriate testing, and verification that communication faults have been resolved.

Preliminary dealer repair range: $1,500-$4,000+

All ranges are historical, preliminary dealer pricing from the source report, not formal 4A Auto quotes. Actual work and cost depend on diagnosis, parts, scope and provider pricing.

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03 / FINDINGS BY PRIORITY

Mechanical and condition findings

YELLOW = significant concern or further investigation. GREEN = lower-priority/cosmetic information, not a whole-vehicle pass.

YELLOW

Air suspension / ride height

Finding / evidence: Ride-height or leveling messages were present. These can result from service/scan conditions or an underlying suspension concern.

Recommended dealer action: Inspect the compressor, valve block, air lines and ride-height sensors. Perform leak testing and verify correct operation.

Preliminary dealer repair range: $800-$6,000+

YELLOW

Brake system

Finding / evidence: Rotor surfaces showed signs consistent with pad transfer or glazing. Rear pads appeared recently replaced. Visual appearance does not establish rotor specifications.

Recommended dealer action: Measure rotor thickness and runout; inspect pad condition, caliper function and rotor surfaces. Repair or replace as indicated.

Preliminary dealer repair range: $400-$1,200 per axle

YELLOW

Engine oil residue

Finding / evidence: Oil residue near the valve-cover/turbo area was consistent with possible seepage. The exact source was not confirmed.

Recommended dealer action: Clean the affected area, inspect after operation and confirm the source. Determine the repair after verification.

Preliminary dealer repair range: $300-$1,800+

GREEN

Interior / cosmetic items

Finding / evidence: Visible nonfactory-looking headliner and seat-cover repairs, a nonfactory trunk-area fastener, and no rear sunshades were noted. The absence of sunshades may reflect vehicle configuration rather than a defect.

Recommended dealer action: Provide available repair records. Review workmanship and equipment specification; address cosmetic concerns as desired.

Preliminary dealer repair range: $150-$1,500

Historical dealer ranges are informational, not formal quotes. Repair or maintenance quotes for identified issues are available on request.

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Follow-up and supporting records

Dealer documents requested

1. Full BMW Certified Pre-Owned reconditioning worksheet or pre-delivery inspection records.
2. Complete prior seat/upholstery repair invoice, including parts replaced, available photos and who performed the work.
3. Invoices for module replacement, programming, software work or ADAS calibration.
4. Post-repair scans and documentation of system readiness.
5. Radar/camera calibration or acceptance records, where applicable.

Test log and evidence references

Source	Public-sample treatment
ISTA full-read export	Source filename and vehicle identifiers withheld.
X-431 diagnostic report	Private access link and report token withheld.
Photos / attachments	The source report references seller-provided invoice or sales attachments if supplied. Separate case photos are not reproduced here.

Important limitations

This report is not a warranty or guarantee of future reliability. It describes conditions observed and information available at the original inspection, within that inspection's scope. It was not a teardown inspection; it does not certify prior repairs or replace title, lien or vehicle-history searches. Dealer-level programming, pairing and calibration were not performed.

Record retention and delivery

4A Auto retains raw scans and supporting technical records; copies may be requested subject to appropriate privacy and access controls. Routine findings can be delivered through Tekmetric inspection reports with the invoice, including photos, videos, descriptions and priority ratings. Complex cases may also receive a separate explanatory report. This sample does not represent the full media collection.

Final statement

The source inspection and supplied scans identified unresolved concerns, including driver-assistance, seat/occupant-detection and electrical-system faults. Request the relevant repair records, additional evaluation and verification before relying on claimed corrections. Findings may support questions or negotiation with the seller, but do not guarantee a price adjustment.

We provide facts and explain uncertainties. We do not tell you to buy or not buy; the purchase decision remains yours. Thank you for trusting 4A Auto to help you understand the vehicle.

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APPENDIX A / DIAGNOSTIC RECORDS

Trouble codes and meaning

Codes, priorities and statuses below are retained from the source report. Descriptions explain recorded information, not confirmed component failures. "Permanent" is the source scan status; it is not proof of present operating condition.

CODE / RECORDED DESCRIPTION	PRIORITY / STATUS	MEANING / FOLLOW-UP CONTEXT
0586D7 Reversing Assistant Function: Operating Error	**YELLOW** Intermittent	A reversing-assist fault was recorded. Possible areas for testing include parking-sensor input, ultrasonic noise, wiring and module communication.
8031CB Ultrasonic Sensors, Rear: Extraneous Noise	**YELLOW** Intermittent	Rear parking/ultrasonic input was abnormal. Contamination, sensor damage or wiring/connectors may warrant inspection.
80170E Restricted Availability of HKL Function	**YELLOW** Intermittent	The power-tailgate function recorded limited availability.
80177A Electric Lower Tailgate Function Available to a Restricted Extent	**YELLOW** Intermittent	The lower-tailgate function recorded limited or restricted availability.
80177C HKFM, Automatic Operation of Tailgate: Locking Detected	**YELLOW** Intermittent	A tailgate locking or latch-operation event was recorded.
80177D HKFM, Lower Tailgate Section: Locking Detected	**YELLOW** Intermittent	A lower-tailgate latch or locking event was recorded.
030E0B Power Management: Abort Emergency Recharge	**RED** Intermittent	The 48-volt system recorded an aborted emergency recharge. Battery, charging, control and connection conditions require testing.
80423F Remote Control Parking Function: System Limit	**YELLOW** Intermittent	Remote-parking operation was limited by system conditions or related sensor/input faults.

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CODE / RECORDED DESCRIPTION	PRIORITY / STATUS	MEANING / FOLLOW-UP CONTEXT
80439B Comfort Access Function, Restricted Availability	**YELLOW** Permanent	Comfort-access/keyless-entry functionality recorded limited availability.
804415 Radio Remote Control: Battery Undervoltage	**GREEN** Permanent	Remote-key battery undervoltage was recorded.
0586B2 / 0586B4 / 0586B6 / 0586B8 Front Collision Warning with Brake Intervention: Restricted Availability	**RED** Intermittent	Forward-collision functions were restricted. These records support further evaluation of front-camera/radar operation.
D15513 Invalid Signal: Monitoring Head Movement Camera (ADCAMM)	**RED** Intermittent	Invalid data associated with the referenced camera signal was recorded. Verify the source scan and module-specific diagnosis.
D155F4 Signal: Front Radar Object List Invalid (ADCAMM)	**RED** Intermittent	Radar-related object data was recorded as invalid or inconsistent.
7E0197 Autonomous Driving Camera: Field of Vision Impaired	**RED** Permanent	The camera recorded an obstructed or impaired field of view.
D1944D Invalid Signal: Front Camera Object List (ADCAMM)	**RED** Intermittent	Front-camera object-recognition data was recorded as invalid.

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D194CB Signal: Running Gear / Odometry Invalid (VIP)	**RED** Permanent	Wheel-speed, odometry or related integration data was recorded as invalid.
D194D8 Invalid Signal: Evasion Assistant (FRSF)	**RED** Intermittent	A driver-assistance signal fault was recorded.
D1950A Signal: Navigation Disclosure / Driver Assistance Prediction (HU)	**YELLOW** Intermittent	Navigation or head-unit data used by assistance systems was not valid at the time of the recorded fault.
D195A0 Signal: Body / Windscreen Wiper Invalid (BCP)	**YELLOW** Intermittent	A body-control input used by assistance systems was recorded as invalid.
022A80 HRSNL: Certificates (Type 1) Not Ready	**RED** Intermittent	Security/certificate readiness for a radar-related system was not complete or valid in the record.
480E6D EHC: Self-Levelling Suspension - Vehicle Lift Detected	**YELLOW** Intermittent	The leveling system recorded a lift-detected event. This can arise during service conditions or with a system fault.
030848 Restricted Availability of Distance Control (ACC with Stop&Go)	**RED** Intermittent	Adaptive cruise-control operation recorded limited availability.
030846 Restricted Availability of Cruise Control with Brake Function	**RED** Intermittent	Brake-assisted cruise-control operation recorded limited availability.

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CODE / RECORDED DESCRIPTION	PRIORITY / STATUS	MEANING / FOLLOW-UP CONTEXT
D76677 Signal (Driver Assistance 0x236) Invalid - ADCAML / ADCAMM	**RED** Intermittent	Driver-assistance camera data was recorded as invalid.
BA0830 EME48 - Secure Bus (SecOC): Verification of Message 0x121 Failed - Transmitter VIP	**RED** Intermittent	Secure communication verification failed between modules.
BA0835 EME48 - Secure Bus (SecOC): Verification of Message 0x185 Failed - Transmitter EGS	**RED** Intermittent	Secure communication verification failed involving transmission-related communication.
801A56 Anti-Theft Alarm System: Panic Alarm - Details in Panic Memory	**GREEN** Permanent	Panic-alarm history was stored.
03178D TCB: Data Connection to Backend Unavailable	**YELLOW** Intermittent	Telematics/backend communication was unavailable at the time of the recorded fault.
03179A HU-H: Function Restriction - Apple CarPlay	**YELLOW** Permanent	An Apple CarPlay function restriction was recorded.
Seat / SRS module entries SMFAH, SMBFH, SMFA, SMBF, ACSM	**RED** Intermittent / Permanent as logged	Seat/occupant-detection faults require evaluation and verification before relying on full restraint-system operation. The source lists module groups rather than individual codes for these entries.

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