

PRECISION AUTO INSPECT

"Providing Clarity Before the Purchase"

Pre-Purchase Inspection Report

2020 BMW X7 M50i

Inspector: Josh Corley	Inspection Date: May 1, 2026
Location: Freeman Motor Co. Portland/Salem, OR	Report ID: PAI-BMW-68911

1. Vehicle Identification & Overview

Vehicle	2020 BMW X7 M50i
Odometer	68,911 Miles
Engine	N63 4.4L Twin-Turbo V8
Transmission	8-speed ZF 8HP Automatic
Drivetrain	xDrive (AWD)

Final Inspector Note This X7 M50i presents as a "turn-key" luxury SUV, demonstrating mechanical and cosmetic preservation that exceeds the typical standard for a vehicle with nearly 69,000 miles. The identified diagnostic signatures are related to standard maintenance consumables (battery, TPMS sensors) rather than indications of structural compromise or powertrain failure.

2. Exterior Condition & Paint Depth Analysis

Component	Status / Finding
Body & Paint	Excellent. All panels demonstrate factory-correct alignment and consistent gap spacing.
Glass	Clear. BMW Laserlights are free of internal condensation or pitting.

Trim	Shadowline trim and roof rails are in excellent condition, showing no signs of UV-related "milking" or fading.
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Paint Depth Analysis & Technical Interpretation

A comprehensive surface analysis was performed using a digital coating thickness gauge. The **Main Body** panels returned readings of **4–5 mils**, adhering to BMW factory specifications. The **Front Fenders** returned a measurement of **11 mils**. As a Senior Inspector, I interpret this 11-mil reading as suggestive of the application of **Paint Protection Film (PPF)** or a high-quality cosmetic respray. Critically, there were no observed signs of structural repair, body filler, or color mismatch. The deviation appears to be purely cosmetic or protective in nature.

Wheels & Tires

- **Condition:** The vehicle is equipped with **22" M V-spoke (Style 755M)** wheels, which remain in very good condition with minimal signs of road wear.
- **Service Recommendation:** Diagnostic data indicates the battery in the **Rear-Left TPMS sensor** (Code 48077E) is near the end of its operational life. Replacement is recommended to ensure system reliability.

3. Interior Assessment

Upholstery & SeatingThe cabin features **Cognac Vernasca Leather** in exceptional condition. The leather remains supple, and the driver-side bolsters show remarkably low compression for the vehicle's mileage. The **Alcantara headliner** is free of stains or sagging.
Electronics & DisplaysThe dual **12.3" displays** and all ambient lighting zones are fully operational. The upgraded glass-clarity controls (shifter, iDrive controller, start button) are intact and function without error.
Cargo & UtilityThe power-folding seats cycle smoothly through their full ranges.

- **Technical Note:** The tailgate currently presents an intermittent **standardization code (801702)**. This is a common BMW software signature that typically requires a simple recalibration to resolve.

4. Mechanical & Diagnostic Scan Results

Diagnostic Fault Table

Code	Description	Recommended Action
030E06	Power Management	Suggests an aging 12V battery; recommend testing or replacement.
026004	Software Token	Shadow code (common after nav updates); no impact on drivability.
48077E	TPMS Sensor Battery	Rear-Left sensor battery is near failure; replacement recommended.

Mechanical Status

- **Air Suspension:** Verified Full Functionality. The system was tested through all height stages (**Entry, Normal, and Off-Road**). It cycled quickly without groaning, compressor lag, or uneven leveling.
- **Engine (N63 4.4L V8):** The engine is dry and quiet. Notably, there is no evidence of oil weeping at the top-end or leaks from the turbo coolant lines. For the N63 engine family—which is historically prone to heat-related seal degradation and turbo-line seepage—this "dry" status is a significant indicator of high-quality maintenance or a well-tempered operational history.

5. Road Test & Performance Evaluation

The vehicle demonstrated exceptional performance during the road test under city and highway conditions. Power delivery from the N63 twin-turbo V8 is linear and immediate. The **M Sport braking system** provides firm, confident pedal feedback with no pulling or vibration detected. The active damping system is fully responsive; the ride quality transitions effectively from a plush, isolated feel in **Comfort mode** to a noticeably firmed-up, controlled posture in **Sport mode** . The cabin environment remains extremely quiet, with a complete absence of wind whistles, suspension clunks, or other Noise, Vibration, and Harshness (NVH) concerns.

6. Digital Archive & Documentation

Digital Photo Archive Link: <https://photos.app.goo.gl/sample-archive-link> This archive contains a full suite of high-resolution images documenting the exterior panels, interior touchpoints, engine bay, and accessible undercarriage components.

7. Certifications & Inspection Limitations

Certifications and Disclosures This inspection was conducted by Josh Corley, Lead Inspector for Precision Auto Inspect. Mr. Corley has over 15 years of experience in high-end vehicle inspection, valuation, and specialist automotive assessment. The inspector has no financial interest in this vehicle or the outcome of the sale. **Limitations of Inspection** This report is based on a visual and diagnostic assessment of visible and accessible components at the time of inspection. This process involves no mechanical disassembly or intrusive testing. This report is for informational purposes only and does not constitute a warranty, guarantee, or prediction of future component life or vehicle reliability.

8. Authorized Signature Line

Authorized Signature: _____ **Name:** Josh Corley **Title:** Lead Inspector, Precision Auto Inspect