

Electronics Inspection Report

Certificate ID: INSP-00311

Issue date: 25/03/2026



2021 BMW iX3

WB7Y7X41030S044318

Inspection result

PASSED

Vehicle has passed all inspection checks

Summary



Vehicle Diagnostics

Perform a diagnosis

17 faults



Battery State of Health

Excellent condition

100.0%



Inspection Checklist

All checklist items have been verified and approved

8 of 8 checklist items completed

This certificate was issued on behalf of
Caralyzr



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certificate



8/8 steps answered · Caralyzr Caralyzr · 25/03/2026, 11:39

Check Drive System Communication

CE1409 Message (request of front axle speed) not current, receiver EME, transmitter DSC · **Passive** **CE1405** Message (request of rear axle speed) not current, receiver EME, transmitter DSC · **Passive** **CE140A** Message (request of front axle speed) checksum incorrect, receiver EME, transmitter DSC · **Passive** **CE1406** Message (request of rear axle speed) checksum incorrect, receiver EME, transmitter DSC · **Passive**

Yes 1. Is the dashboard free of any warnings related to the drive system or stability control?

Caralyzr Caralyzr · 2026-03-25T11:36:30.540801+00:00

Yes 2. Do live data streams for front and rear axle speeds from the DSC module show valid, current values while stationary?

Caralyzr Caralyzr · 2026-03-25T11:36:30.540801+00:00

Yes 3. Is the system free of any audible abnormalities from the electric drive system while stationary?

Caralyzr Caralyzr · 2026-03-25T11:36:30.540801+00:00

Verify Driver Assistance System Signals

D16DED Signal (driver assistance, convenience function and safety function) invalid, transmitter DSC / SAS · **Passive** **D1D47D** Signal (data function of alertness assistant, 251.3.8) invalid, transmitter ACSM · **Passive** **D1D609** Signal (warning brake coordinator status, 45.2.4) invalid, transmitter DSC / VIP · **Passive** **O3083A** FAS: Emergency Stop Assistant activation not possible · **Passive** **D1D5AD** Signal (longitudinal vehicle dynamics data 1, 57.2.4) invalid, transmitter DSC / VIP · **Passive** **D1D621** Signal (odometry, vehicle 1, 54.0.2) invalid, transmitter DSC / VIP · **Passive** **D1ED97** Signal (detection of driving condition, face detection) invalid, transmitter DCS · **Passive**

Yes 1. Is the dashboard free of any warning lights or messages related to driver assistance systems (e.g., ABS, ESP, emergency brake)?

Caralyzr Caralyzr · 2026-03-25T11:36:30.540801+00:00

Yes 2. Do live data streams for vehicle dynamics and alertness assistant status from the DSC and ACSM modules show valid signals?

Caralyzr Caralyzr · 2026-03-25T11:36:30.540801+00:00

Yes 3. Does the Emergency Stop Assistant function appear to be available and not deactivated in system data?

Caralyzr Caralyzr · 2026-03-25T11:36:30.540801+00:00

Final steps

Yes 1. Clear fault codes

Caralyzr Caralyzr · 2026-03-25T11:36:30.540801+00:00

Yes 2. Upload new report

Caralyzr Caralyzr · 2026-03-25T11:36:30.540801+00:00

Diagnostics report

Report ID: INSP-00311
Inspection date: 24/03/2026



Report result

FAILED

Perform a diagnosis

Based on the uploaded diagnostic report(s), this vehicle's electronic state indicates one or more electronic warnings at the time of measurement. Further review is recommended.

Vehicle details	Year	Make	Model	Odometer	VIN Number
	2021	BMW	iX3	63071km	WBY7X41030S044318

Vehicle Diagnostics

See page 2 for full details

17

TOTAL FAULTS

1

ACTIVE

16

PASSIVE / SPORADIC

7

MODULES

This Vehicle Diagnostics Report reflects the electronic condition of the vehicle at the time of measurement, based on the uploaded source report(s). The inspection is limited to the electronic status of the following systems: ADAS, High Voltage, Lighting Systems, ABS, Telematics, Suspension & Steering, Engine & Drivetrain, Climate Control, and Comfort & Convenience. This report does not cover mechanical, structural, visual, or functional aspects of the vehicle. Results may vary due to data completeness, vehicle configuration, software versions, and diagnostic tool output. Caralyzr uses artificial intelligence and an evolving automotive database to analyze vehicle data. While care is taken to provide accurate insights, errors or incomplete information may occur.

Report name	Date & time	Device used
2021_04 BMW Vehicle Diagnostic Report_WBY7X41030S044318_20251120171015.pdf	24/03/2026 11:20	MaxiSys MS909&ADAS



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Fault codes	Status
BDC (Body Domain Controller)	
• 030E0B: Power management: Abort emergency recharge	Active
EME (Electrical Machine Electronics)	
• CE1405: Message (request of rear axle speed) not current, receiver EME, transmitter DSC	Passive
• CE1406: Message (request of rear axle speed) checksum incorrect, receiver EME, transmitter DSC	Passive
• CE1409: Message (request of front axle speed) not current, receiver EME, transmitter DSC	Passive
• CE140A: Message (request of front axle speed) checksum incorrect, receiver EME, transmitter DSC	Passive
EPS (Electric Power Steering)	
• D51A3E: Signal (vehicle speed, 55.3.4) invalid, transmitter DSC	Passive
FRSF (Long-distance range front radar sensor)	
• D16DED: Signal (driver assistance, convenience function and safety function) invalid, transmitter DSC / SAS	Passive
PMA (Parking Manoeuvring Assistant)	
• 803207: Ultrasonic sensors: Extraneous noise detected	Passive
• D42DA1: Signal (odometry vehicle 1) invalid, transmitter DSC / VIP	Passive
• D42DA9: Signal (vehicle movement actual vector) invalid, transmitter DSC / VIP	Passive
SAS2 (Optional Equipment System 2)	
• 03083A: FAS: Emergency Stop Assistant activation not possible	Passive
• D1D47D: Signal (data function of alertness assistant, 251.3.8) invalid, transmitter ACSM	Passive
• D1D5AD: Signal (longitudinal vehicle dynamics data 1, 57.2.4) invalid, transmitter DSC / VIP	Passive
• D1D609: Signal (warning brake coordinator status, 45.2.4) invalid, transmitter DSC / VIP	Passive
• D1D621: Signal (odometry, vehicle 1, 54.0.2) invalid, transmitter DSC / VIP	Passive
• D1ED97: Signal (detection of driving condition, face detection) invalid, transmitter DCS	Passive
SMFA (Driver Seat Module)	
• 802A1E: SMFA: No seat adjustment is possible due to engine start	Passive

SOH report

Certificate ID: SOH-00344
Inspection date: 25/03/2026



Excellent condition

The HV battery has a high remaining capacity. Based on the available BMS/ diagnostic data, no relevant deviations were identified at the time of measurement.

Vehicle details

Year	Make	Model	Odometer	VIN Number
2021	BMW	iX3	63071km	WBY7X41030S044318



The State of Health (SOH) is an indication of the usable battery capacity of the HV battery relative to a reference (new condition). The score is calculated based on battery and vehicle data read from the BMS and reflects the condition at the time of measurement. The result can be influenced by charge level, temperature, balancing, software versions, and data completeness. The SOH score is not a guarantee of a specific driving range, but an objective indicator of battery condition based on available data.

Report name
BMW20iX328X27G082920202120SOH20Blitz20Test20Report_WBY7X41030S044318_20251120173733.pdf

Date & time
25/03/2026 09:23

Device used
MaxiSys MS909&ADAS



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2021_04 BMW Vehicle Diagnostic Report

Vehicle Information

2021_04/BMW/X'iX3_-/-
VIN: WBY7X41030S044318

Odometer Reading: 63071km
License Plate: --



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Customer Information

Name: --

Tel: --

Device information

Scanner: MaxiSys MS909&ADAS
Version: V5.10-18.02

Serial Number: VA9GPAV01245
Repair Order Number:
VA9GPAV0124520251120170947101

System Scanned (33)

System		Status/DTC
DSC (Dynamic Stability Control)		✓ 0
ACSM (Airbag-Advanced Crash Safety Module)		✓ 0
KOMBI (Instrument Cluster)	ADAS	✓ 0
HRSNL (Left Rear Radar Sensor Near Range)	ADAS	✓ 0
SRSNVR (Right Front Side Radar Sensor Near Range)	ADAS	✓ 0
BDC (Body Domain Controller)		✗ 1
TRSVCA (All Round View Camera)	ADAS	✓ 0
SME (Storage Management Electronics)		✓ 0
HRSNR (Right Rear Radar Sensor Near Range)	ADAS	✓ 0
HKFM (Rear Tailgate Function Module)		✓ 0
ZGM (Central Gateway Module)		✓ 0
EME (Electrical Machine Electronics)		✗ 4
FRSF (Long-distance range front radar sensor)	ADAS	✗ 1
SAS2 (Optional Equipment System 2)		✗ 6
SRSNVL (left Front Side Radar Sensor Near Range)	ADAS	✓ 0
PMA (Parking Manoeuvring Assistant)	ADAS	✗ 3
EPS (Electric Power Steering)		✗ 1
RAM (Receiver audio module)		✓ 0
VIP (Virtual integration system)		✓ 0
CCU (Combined Charging Unit)		✓ 0

FLEL (Frontal Light Electronics Left)	ADAS	✓ 0
FLER (Frontal Light Electronics Right)	ADAS	✓ 0
DCS (Driver Camera System)	ADAS	✓ 0
FZD (Roof Function Center)		✓ 0
KAFAS (Camera-Based Driver-Assistance Systems)	ADAS	✓ 0
GWS (Gear Selector Switch)		✓ 0
TCB (Combox Emergency Call)		✓ 0
HUH (Headunit High)	ADAS	✓ 0
CON (Controller)		✓ 0
SMFA (Driver Seat Module)		✗ 1
AHM (Trailer Module)		✓ 0
VDP (Vertical dynamics platform)		✓ 0
IHKA (Integrated Automatic Heating And A/C System)		✓ 0

DTC (17)

BDC (Body Domain Controller) (1 DTC)

DTC	Description	Status
030E0B	Power management: Abort emergency recharge	Permanent

EME (Electrical Machine Electronics) (4 DTCs)

DTC	Description	Status
CE1409	Message (request of front axle speed) not current, receiver EME, transmitter DSC	Intermittent
CE1405	Message (request of rear axle speed) not current, receiver EME, transmitter DSC	Intermittent
CE140A	Message (request of front axle speed) checksum incorrect, receiver EME, transmitter DSC	Intermittent
CE1406	Message (request of rear axle speed) checksum incorrect, receiver EME, transmitter DSC	Intermittent

FRSF (Long-distance range front radar sensor) (1 DTC)

DTC	Description	Status
D16DED	Signal (driver assistance, convenience function and safety function) invalid, transmitter DSC / SAS	Intermittent

SAS2 (Optional Equipment System 2) (6 DTCs)

DTC	Description	Status
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D1D47D	Signal (data function of alertness assistant, 251.3.8) invalid, transmitter ACSM	Intermittent
D1D609	Signal (warning brake coordinator status, 45.2.4) invalid, transmitter DSC / VIP	Intermittent
03083A	FAS: Emergency Stop Assistant activation not possible	Intermittent
D1D5AD	Signal (longitudinal vehicle dynamics data 1, 57.2.4) invalid, transmitter DSC / VIP	Intermittent
D1D621	Signal (odometry, vehicle 1, 54.0.2) invalid, transmitter DSC / VIP	Intermittent
D1ED97	Signal (detection of driving condition, face detection) invalid, transmitter DCS	Intermittent

PMA (Parking Manoeuvring Assistant) (3 DTCs)

DTC	Description	Status
803207	Ultrasonic sensors: Extraneous noise detected	Intermittent
D42DA1	Signal (odometry vehicle 1) invalid, transmitter DSC / VIP	Intermittent
D42DA9	Signal (vehicle movement actual vector) invalid, transmitter DSC / VIP	Intermittent

EPS (Electric Power Steering) (1 DTC)

DTC	Description	Status
D51A3E	Signal (vehicle speed, 55.3.4) invalid, transmitter DSC	Intermittent

SMFA (Driver Seat Module) (1 DTC)

DTC	Description	Status
802A1E	SMFA: No seat adjustment is possible due to engine start	Intermittent

Technician Notes

Customer name: _____

Technician: _____

Date: _____

Note: Please save a copy of this report for your records.

BMW iX3(X'G08) 2021 SOH Blitz Test Report



Vehicle Information

2021/BMW/iX3(X'G08)
VIN: WBY7X41030S044318
Battery Code: --
Maximum Storable Energy: --

Odometer Reading: 63071km
License Plate: --
Rated Voltage: 345V
Rated Capacity: 232Ah



Customer Information

Name: --

Tel: --

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Device information

Scanner: MaxiSys MS909&ADAS
Version: V18.02

Serial Number: VA9GPAV01245
Repair Order Number: --

Power Battery Status

Battery Pack Information

100%

SOH

SOC 95%

Range on a full charge (WLTP *): 520Km

Total voltage:	385.61V	Total current:	-3.89A
Cell maximum voltage:	4.108V	Maximum temperature:	5.5°C
Cell minimum voltage:	4.102V	Minimum temperature:	4.4°C
Voltage delta:	6mV	Modules:	10
Range of new vehicle on a full charge:	520Km		

Maintenance advice: The battery pack is OK

* SOH: SOH (State of Health) is a key indicator that measures the degree of performance degradation of a battery relative to its initial condition. SOH = current capacity of the fully charged vehicle/nominal capacity of the new vehicle. Lower SOH will result in a shorter range after a full charge of the vehicle. It is generally believed that when SOH is less than 80%, lithium batteries are not suitable for vehicle use.

* WLTP: The range on a full charge is the estimated range that a vehicle can travel after a full charge. Weather, road conditions, driving habits and other factors can have a large impact on the range. The range on a full charge is measured in accordance with the Worldwide Harmonised Light Vehicle Test Procedure (WLTP) to ensure that the data can be used as a reference.

Battery Temperature Information

Test results: The temperatures of all battery modules are OK.

Module	Total voltage	Temperature	
		T1	T2
M1	45.142V	4.5°C	4.4°C
M2	45.147V	5.2°C	4.9°C
M3	36.93V	4.9°C	4.9°C
M4	36.93V	5.3°C	4.9°C
M5	36.931V	4.9°C	4.8°C
M6	36.933V	5.4°C	5.0°C
M7	36.933V	5.0°C	5.2°C
M8	36.928V	5.1°C	4.9°C
M9	36.946V	5.1°C	5.2°C
M10	36.942V	5.5°C	5.1°C

Cell Voltage Information

Test results:The cell voltages of all battery modules are OK.

Module	Battery cell voltage							
M1	#1	#2	#3	#4	#5	#6	#7	#8
	4.104V	4.104V	4.104V	4.103V	4.103V	4.104V	4.104V	4.104V
	#9	#10	#11					
	4.104V	4.104V	4.104V					
M2	#1	#2	#3	#4	#5	#6	#7	#8
	4.104V	4.104V	4.104V	4.104V	4.104V	4.104V	4.104V	4.104V
	#9	#10	#11					
	4.105V	4.105V	4.105V					
M3	#1	#2	#3	#4	#5	#6	#7	#8
	4.104V	4.104V	4.103V	4.103V	4.103V	4.103V	4.104V	4.103V
	#9							
	4.103V							
M4	#1	#2	#3	#4	#5	#6	#7	#8
	4.104V	4.103V	4.104V	4.102V	4.104V	4.103V	4.103V	4.104V
	#9							
	4.103V							
M5	#1	#2	#3	#4	#5	#6	#7	#8
	4.104V	4.104V	4.104V	4.103V	4.103V	4.103V	4.104V	4.103V
	#9							
	4.103V							
M6	#1	#2	#3	#4	#5	#6	#7	#8
	4.104V	4.104V	4.104V	4.103V	4.103V	4.104V	4.103V	4.104V
	#9							
	4.104V							
M7	#1	#2	#3	#4	#5	#6	#7	#8
	4.104V	4.103V	4.104V	4.104V	4.103V	4.104V	4.105V	4.102V
	#9							
	4.104V							
M8	#1	#2	#3	#4	#5	#6	#7	#8
	4.103V	4.103V	4.103V	4.103V	4.103V	4.103V	4.103V	4.104V
	#9							
	4.103V							
M9	#1	#2	#3	#4	#5	#6	#7	#8
	4.106V	4.104V	4.106V	4.105V	4.106V	4.106V	4.105V	4.104V
	#9							
	4.104V							

M10	#1	#2	#3	#4	#5	#6	#7	#8
	4.108V	4.104V	4.104V	4.104V	4.106V	4.103V	4.104V	4.105V
	#9							
	4.104V							

● Black: OK ● Orange: Warning ⚠ ● Red: Not OK 🚫

Customer name: _____

Technician: _____

Date: _____

Note: Please save a copy of this report for your records.

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