



2021 NEW VEHICLE PREPARATION AND MAINTENANCE REQUIREMENTS

What's New (Specific text highlighted):

- Maintenance section: New coolant level check
- Attachments 2 & 4 updated

MODEL

F39 X2 Sports Activity Coupe (SAC)	F48 X1 Sports Activity Vehicle (SAV)	F95 X5 M SAV	F96 X6 M SAC
F97 X3 M SAV	F98 X4 M SAC	G01 X3 SAV	G02 X4 SAC
G05 X5 SAV	G06 X6 SAC	G07 X7 SAV	

SITUATION

Model	Production Start	Comments
X1 sDrive28i, xDrive28i	July 2020	No changes to QC1 or maintenance from 2020 models.
X2 sDrive28i, xDrive28i, M235i	July 2020	No changes to QC1 or maintenance from 2020 models.
X3 xDrive30e, sDrive30i, xDrive30i, M40i	August 2020	No changes to QC1 or maintenance from 2020 models.
X3 M**	May 2020*	No changes to QC1 or maintenance from 2020 models.
X4 xDrive30i, M40i	August 2020	No changes to QC1 or maintenance from 2020 models.
X4 M**	May 2020*	No changes to QC1 or maintenance from 2020 models.
X5 sDrive40i, xDrive40i, M50i	August 2020	No changes to QC1 or maintenance from 2020 models.
X5 M**	August 2020	No changes to QC1 or maintenance from 2020 models.
X5 xDrive45e	June 2020	New model. Plug-in Hybrid Electric Vehicle (PHEV). The XB1151M1 powertrain consists of a 3.0-liter 6-cylinder combustion engine B58B30M1, rated at 282 bhp and 331 lb. ft. The electrical machine GC1P25M0 is rated (peak values) at 111 bhp and 194 lb. ft. Combined drivetrain rated at 389 bhp and 443 lb. ft. Available only with 8-speed Sport Steptronic transmission.
X6 sDrive40i, xDrive40i, M50i	August 2020	No changes to QC1 or maintenance from 2020 models.
X6 M**	August 2020	No changes to QC1 or maintenance from 2020 models.
X7 xDrive40i, M50i	August 2020	No changes to QC1 or maintenance from 2020 models.
ALPINA XB7	August 2020	New model. 4.4 liter N63B44T3 TwinPower Turbo V8 engine rated at 612 bhp and 590 lb. ft. 8-speed Sport Steptronic transmission.

*Availability approx. one month later; postponed from April 2020 due to Plant Spartanburg closure for COVID-19.

**Note: The separate "Competition" models offered for MY2020 have been discontinued, but the same equipment and increased engine output are offered as "Competition Package" option code ZCP.

17-digit Vehicle Identification Number (VIN): The 10th digit (model year identifier) utilizes the letter "M" for MY 2021.

A reference guide for 2021 BMW Group models officially communicated through 11/2020 is included for your convenience. Refer to [Attachment 5](#).

Service Bulletin sections:

Topic	Purpose
New product information	Overall familiarization with new vehicle visual and operational features, prior to performing the QC1. Intended for all center personnel.
Quality Certification 1 (QC1)	Product details and clarifications relevant to preparing a vehicle for showroom display, test drives, or customer presentation. Intended for technicians and salespeople.
Maintenance	Overall maintenance aspects once a vehicle is retailed, especially if unusual operations are required. Details provided in an attachment. Intended for technicians.
General notes, Parts information, Warranty information	Intended for parts and warranty administrators.

Important warning for working on the high-voltage (HV) systems on the X3 xDrive30e and X5 xDrive45e:

Only properly trained personnel, who have passed all applicable technical training courses, should perform any maintenance or repairs on any Hybrid or Electric Vehicle. Work performed by unqualified persons may result in severe injury or damage to the vehicle. Additional information is found in Repair Instruction 61 00... Observe safety instructions when handling electric vehicles.

New Product Information

ALPINA XB7:

- Product information and specifications- refer to the official Press Release: <https://www.bmwusanews.com/newsrelease.do?id=3591&mid=572>

X5 xDrive45e (aka X5 PHEV):

- Product information and specifications- refer to the official Press Release: <https://www.bmwusanews.com/newsrelease.do?id=3601&mid=>
- Technical Training Manual: ST2005 G05 PHEV Complete Vehicle- BMW TIS, select tab “Training”.

QC1

Note: The traditional 4-page QC1 checklist was already discontinued with the start of the 2019 model year (refer to [SI B00 01 18](#)) and is not be available to order via ATLAS. The showroom display, the road test; or the spot delivery **must be** successfully completed for all individual QC1 operations before submission of the warranty claim.

A single-page QC1 checklist for 2021 BMWs ([Attachment 1](#)) is intended:

- As a reference for the various operations needed for the different possible scenarios to prepare the vehicle for customer delivery
- For Service Department supervisors to print out and train a new QC1 technician on the operations
- The customer does not need to sign the checklist, but Service Department associates may print it out for individual vehicles if requested by the customer

G01, G02 Tow hook covers: A set of front and rear covers for the corresponding tow hook access holes in the bumpers are included with each vehicle. Install them when performing the Display Vehicle Check.

Both covers are either placed loosely in the trunk or glove compartment; or included in the by-pack bag.

Each cover has a tether and a diamond-shaped retaining head.



1. Inspect each tow hook cover. Ensure the tabs (arrows) are not broken or bent. If any tab is slightly bent, carefully bend it back to the correct position.

Any corrective bending is best done with the cover at least at room temperature to reduce the risk of breakage.



2. Insert the head into the small slot (arrow) in the bumper opening. Rear bumper shown; front is similar.

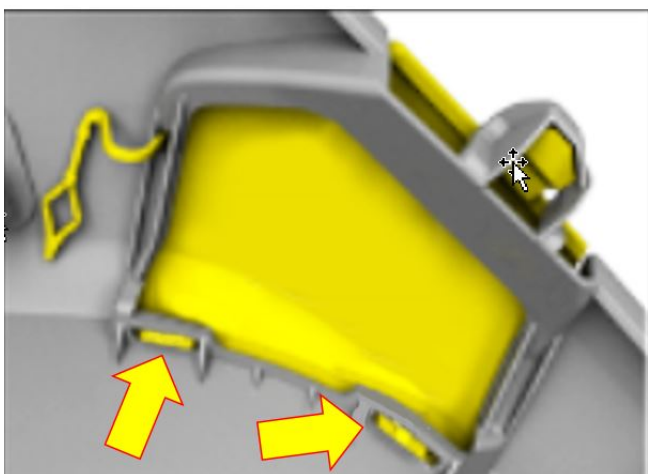
Note: Do not squeeze the diamond head excessively. Squeezing the sides together can create a permanent narrowed set, so that the head is not effectively held in the slot.

Feed the tether straight into the slot so that it does not fold over.

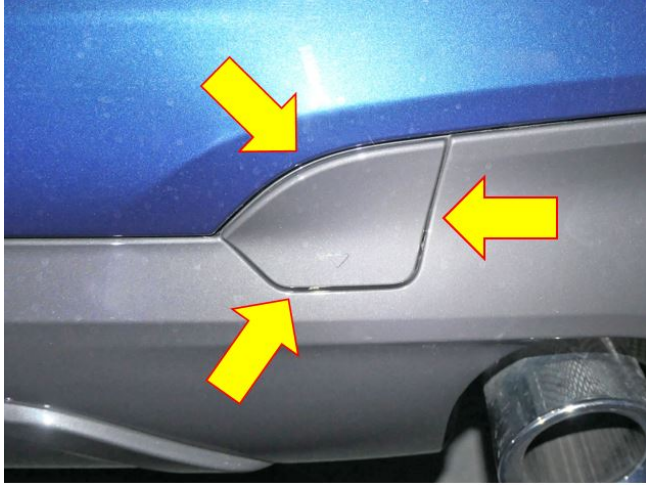


3. (Bumper inner surface view)

Ensure that the tow hook cover's tabs align with the openings (arrow) in the bumper.



4. Once the tabs are aligned, press firmly on the cover until an audible snap is heard from the tabs.



Check that all edges are flush with the bumper's cutout edge and not protruding.

A protruding corner or edge is at risk to be caught by car wash bristles. This can pull the entire cover out of the bumper and break the tether head so that the cover becomes detached.

Equipment changes compared to 2020 models which will be noticed during QC1:

G01, G02, G05, G06: Remote key design

G01 PHEV, G05 PHEV: Drive-readiness sound activates at start-up and shut-down

G01, G02:

- Option code 3M2 M Sport brakes: Red calipers
- Option code 645 Radio Control: CD player prep deleted

F97, F98:

- Option code 3M5 M compound brake: Red calipers
- Option code 3M6 M compound brake: Black calipers

G05, G06:

- Option code 3M2 M Sport brake: Red calipers
- Option code 4UR Ambient Light: Seatback lighting deleted

G05: Increased comfort access range

G05, G06, G07 with B58 engine:

A 48 Volt circuit is introduced, enabling vehicle classification as a mild hybrid. The 48 V system is limited to the powertrain, primarily for:

- Improved automatic engine start/stop (MSA)
- Engine turns completely off while the vehicle is coasting, instead of engine speed going to idle
- eBoost function to augment engine acceleration
- Reduced CO2 emissions

Most of the other vehicle systems continue to run on 12 Volts. For technical information and system descriptions, refer to Technical Training Manual ST2007 in TMSI.

Refer to the Maintenance section in case the 48 V circuit needs to be charged using a BMW- approved battery charger.

X5 xDrive45e: Fully charge the HV battery.

When Transport Mode is active, the HV State of Charge (SoC) is shown in the instrument cluster after opening the driver's door.

- If your center does not intend to immediately prepare the vehicle for display, charge the Lithium-ion HV battery right away. This usually holds the HV state of charge until you can deactivate transport mode (TM).
 - When TM is still active, the HV battery can only be charged to approx. 35%.
 - With TM deactivated, the HV battery can be charged to its full capacity. This is a required operation for performing the QC1.
- When the HV battery is fully, or near-fully charged, the vehicle will be driveable in electric mode. Close the driver's door, press the Start/Stop button with your foot on the brake pedal. The word "READY" appears in the instrument cluster, denoting "drive readiness".

When drive readiness is activated, the vehicle is operational. Activated drive readiness is the equivalent of a running internal combustion engine in conventional vehicles. Deactivated engine readiness is equivalent to switching the ignition off.

To drive off:

1. Activate drive readiness
2. Engage selector lever position D, M/S or R
3. Release the parking brake
4. Drive off

The combustion engine will start when:

- The drive system is not at operating temperature
- The temperature of the hybrid system is too high
- The high-voltage battery has an insufficient charge

The HV battery can be charged as shown. Adjust the HV charge rate using the Central Information Display per the path CAR- Plan charge/climate- Charging settings- (select) Maximum/Reduced/Low.

Designation	Power source	Highest current setting	Charge time to 80% from fully discharged	Comments
Level 1	110 V outlet	1.1 kW	12.4 hrs	Occasional Use Cable (OUC) incl. as standard equipment, stored in cargo area underfloor
Level 2	220 V wall box or pylon	3.7 kW	3.4 hrs	For SAE J1772 socket



The HV charging access port (arrow) is located at the left front fender.

The label on the flap shows the charge status indicated by the light.

- White: Charging plug can be inserted
- Yellow: Charging procedure is being initialized
- Blue continuous: Charging procedure is started for a pre-set time period
- Blue flashing: Charging procedure is active
- Green: Charging procedure is completed.
- Red: Fault occurred during the charging procedure

The body flap for the HV access port utilizes an integrated sealing system, eliminating the need for a protective cap on the charging socket.



When preparing to add gasoline, press the filler flap release button (arrow) located at the front of the driver's door storage pocket. The fuel tank charcoal canister must first vent for a few seconds before the flap can be unlocked and opened.

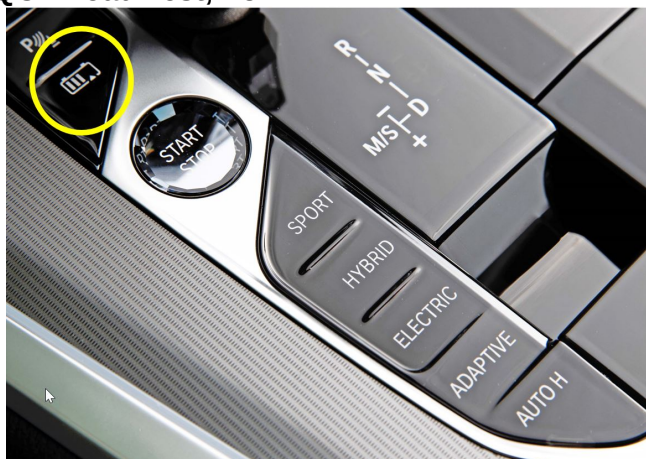
As a guideline, at an ambient temperature of 70°F, the venting process can take approx. 10 seconds. But depending on the system pressure, temperature, and fuel grade the venting process can take up to 1 minute. The remaining ventilation time is displayed in the instrument cluster.

Caution: Do not refuel the vehicle while the HV charging cable is in use.

Note: If the fuel flap is not opened within approx. 10 minutes after it was unlocked, the flap will lock automatically.

The X5 PHEV's recommended fuel grade to achieve rated engine output is premium unleaded 91 AKI, min. 89 AKI. The HV battery occupies the space under the rear seat where the fuel tank would be on other G05 models. The fuel tank was relocated to the trunk subfloor area, and reduced in size from 21.9 to 18.2 gallons compared to other G05 models. The cargo area capacity is thereby slightly reduced from 31.9 to 31.1 cu ft.

QC1 Road Test, X5 PHEV:



There are three drive mode switches located adjacent to the transmission selector lever on the center console (optional Glass Controls, option code 4A2 shown):

Switch marking	Drive characteristic
HYBRID	Default setting at each key cycle. The vehicle is moved in hybrid mode, i.e., the drive combines the combustion engine and electric motor.
ELECTRIC	In ELECTRIC STANDARD and ELECTRIC INDIVIDUAL, the vehicle is driven exclusively using electric power. ELECTRIC INDIVIDUAL can be specified as the default mode. Mode deactivates at approx. 84 mph.
SPORT	The combustion engine remains active for particularly sporty driving. Allows for more aggressive energy regeneration from engine and mechanical braking.
“Battery symbol” (circled above)	BATTERY CONTROL- the electric range can be maintained and conserved for a later point in the trip or increased as needed.

For Authorized BMW centers located in the State of California: Refer to [B00 05 18](#) for vehicle labeling requirements per California Proposition 65. The requirements went into effect as of August 30, 2018. The QC1 reference checklist (Attachment 1) has been updated to include a line for this vehicle labeling in the “Delivery Check- Salesperson” section.

Recalls or Service Actions on new BMWs:

Before delivering a vehicle to a customer, please ensure that your Sales staff check the vehicle for open Recalls or Service Actions. **Keep in mind that Recalls or Service Actions can be issued after a vehicle has been prepared for spot delivery.** Therefore, please verify with your Service Department that your vehicles have no open Recalls or Service Actions prior to customer delivery. You can check for open Recalls or Service Actions via the following systems:

- ISPA Next, or
- DealerSpeed.net- DCSnet- Service- Vehicle History- enter the chassis#- check the section “Open Campaign Information”

Please be reminded that it is a violation of Federal law for you to sell, lease and deliver any new vehicle until all recall repairs have been performed. This means that centers may not legally deliver new motor vehicles with an open recall to a consumer until it is fixed, or use/sell replacement equipment/parts subject to a recall. Note also that substantial civil penalties apply to violations of this law.

Equipment changes compared to 2020 models which will be noticed during QC1:

F97, F98:

- CD player deleted
- SA 6WB Multifunctional instrument display replaced with 6U3 Live Cockpit Professional (includes Navigation as standard equipment)

Enable Navigation Road Map: Since this process takes place automatically with ISTA during the Delivery Check- Technician portion, it has been removed from the Salesperson section in the QC1 Reference Checklist (attachment 1).

Maintenance

G05, G06, G07 with N63 8-cylinder engines: A new, one-time additional coolant level check operation is now linked to the second Engine Oil Service (Service Counter 2 only).

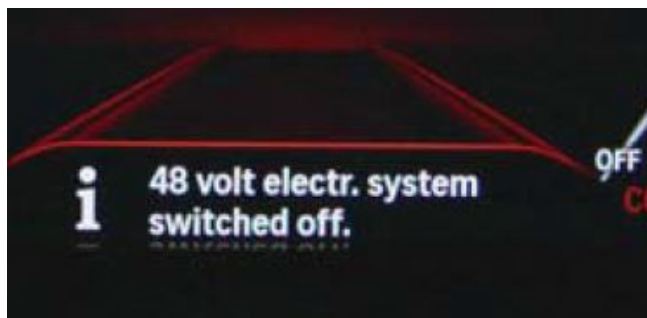
As of October 2021, and retroactively, this new operation will display in ISPA Next, it applies to the high-temperature circuit. Vehicles which have already received the 2nd Engine Oil Service will not display this. Refer to [B17 04 20](#).

- Refer to **Attachment 2** for the Condition-Based Service (CBS) intervals
- Refer to **Attachment 3** for the maintenance operations on 2021 M models
- Refer to **Attachment 4** for the maintenance operations on 2021 non-M models

The maintenance operations referenced above are available outside of the official BMW network for single vehicle owners and independent repair facilities via www.bmwtechinfo.com.

G05, G06, G07 with B58 engine:

The 48 V circuit requires no special maintenance.



The 48 V system is automatically powered down for maintenance mode when the vehicle's hood is opened.

- A message is displayed in the instrument cluster

It remains powered down until either the hood is closed, a switch to driving is made; or an external battery charge is detected.

External charging of the vehicle is performed as usual, via the 12 V jump start terminal in the engine compartment. When an approx. 50% SoC threshold of the 12 V battery is exceeded, the 48 V lithium-ion (Li-ion) battery starts to receive the charge. The system is powered up after a defined charging voltage has been exceeded and placed in boost mode (12 V to 48 V).

The Li-ion battery can be charged:

- In the driving condition Residing, stationary functions and PAD
- In sleep mode: The IBS detects the external battery charge and wakes the vehicle up, whereupon the 48 V electrical system is powered up.

External charging is terminated when the charging voltage drops again or the 48 V battery is fully charged. For information on BMW-approved battery chargers, refer to [B04 23 10](#).

General Notes

Warranty and Maintenance Information booklets are 2 separate booklets. The part numbers are shown for identification purposes only, or for ordering additional booklets if needed.

2021 X3 M, X4 M, X5 M, X6 M Warranty booklet	01 00 5A1BC75 (print date 7/2020)
2021 X1-X7 (except M models) Warranty booklet	01 00 5A1BC74 (print date 7/2020)
2021 All models Maintenance booklet	01 00 5A1BC92 (print date 7/2020)

WARRANTY INFORMATION

Reimbursement of the BMW Pre-Delivery Inspection (Quality Certification 1) on 2021 BMWs is via submission of a warranty claim when the work is completed.

- If the Display and Delivery portions of the inspection are performed separately, individual claims should be submitted when those operations are performed.
- If the entire QC1 delivery inspection is performed at the same time, submit one claim for "Spot Delivery." This is an important difference from the prior process, and claims must not reflect Display and Delivery if only the Spot Delivery was actually performed.
- All BMWs are only eligible for either the Display and Delivery Inspection, or the Spot Delivery Inspection.
- If a BMW center performs the Display Inspection and the vehicle is traded, then the second center may only perform and claim the Delivery Inspection. Check the DCS Vehicle History Report to determine whether a claim for this work had been submitted by another center.
- If a center receives a vehicle, does nothing to it and then trades it to another center, then the second center may perform the Display and Delivery Inspection or the Spot Delivery Inspection, whichever is relevant. Check the DCS Vehicle History Report to determine if a claim for this work had been submitted by another center.

BMW Company Vehicles

Reimbursement for performing the QCI on BMW company vehicles of any model year for regional employees of BMW of North America, LLC must still be requested by submitting a claim through DCS. Use the Spot Delivery codes listed below:

Defect Code:	11999977BV
Labor Operation:	00 00 012 (Main work)
Flat Rate Units:	Refer to AIR

Refer to AIR for the corresponding flat rate unit (FRU) allowance. Enter the Chassis Number, which consists of the last 7 digits of the VIN. Click on the "Search" button, and then enter the applicable flat rate labor operation in the FR code field.

Note: BMW company vehicles delivered to field personnel may have already received a full QCI. This should be evident upon arrival at your center by the following:

- The absence of the usual protective seat and door panel covers
- Transport mode has been deactivated (radio is operational)
- The Monroney label not being affixed to the window, etc.

Please verify that the QC1 has already been performed at a VDC on a specific vehicle by contacting your regional Distribution Manager with the chassis number.

QC1 Inspections are covered under the terms of the BMW New Vehicle Limited Warranty.

Defect Code:	11000077BV	QCI – Display Inspection	
:			
Labor Operation	Description	Labor Allowance	
00 00 008	Display Inspection (Main work)	Refer to AIR	

Or:

Defect Code:	11999977BV	QCI – Spot Delivery Inspection	
:			
Labor Operation	Description	Labor Allowance	
00 00 012	BMW QCI-Spot Delivery (Main work)	Refer to AIR	

***IMPORTANT:**

As with all work that is reimbursed by BMW, the repair order, time recording, and record keeping requirements outlined in the Warranty Policy and Procedures Manual must be strictly observed. Quality Certification I payments are subject to audit.

QUESTIONS REGARDING THIS BULLETIN

Technical inquiries	Submit feedback at the top of this bulletin
Warranty inquiries	Please contact the Warranty department by either using the Live Chat that's available in the Warranty Documentation Portal or through IDS by selecting Coverage, Policy, Coding Questions and Mileage Corrections
Parts inquiries	Submit an IDS ticket to the Parts Department

Supporting Materials

- [picture as pdf B000320 Attachment 2 CBS intervals 10_2021.pdf](#)
- [picture as pdf B000320 Attachment 3 Maintenance requirements M models 7_2020.pdf](#)
- [picture as pdf B000320 Attachment 5 2021 BMW Group models reference guide 11_20.pdf](#)
- [picture as pdf B000320 Attachment 4 Maintenance requirements all but M 10_2021.pdf](#)
- [picture as pdf B000320 Attachment 1 BMW 2021 QC1 SAV reference 3_21.pdf](#)

