



MAINTENANCE

2023 BMW

The primary method to obtain an electronic and/or printed copy of this BMW vehicle Maintenance booklet is from the BMW USA website (Owners > Warranty Information).

Download/electronic version

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BMW SERVICE

BMW recommends you have your maintenance and repair work performed by an authorized BMW center.

MAINTAINING YOUR BMW VEHICLE

A well-maintained vehicle will help safeguard its operational performance, road-safety and its reliability. This is why it is important to follow and perform BMW's recommended periodic vehicle inspections and maintenance service tasks as indicated by your vehicle's Maintenance Service Display, along with the other maintenance work described in this booklet.



Damage, including consequential damage, which results from lack of or improper maintenance is not covered under the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

MAINTENANCE INTERVALS

Maintenance intervals on motor vehicles were conventionally based solely on a fixed time period or a specified amount of accumulated driving mileage.

However, operational and driving conditions have a major influence on your vehicle's routine maintenance requirements; the distance traveled is only one of these significant factors. A vehicle used for short trips in the city with numerous cold starts, prolonged periods of idling, stop-and-go driving, and high engine speeds during acceleration may require more frequent maintenance intervals than a vehicle that is driven long distances at moderate engine speeds.

Your BMW vehicle uses sensors and algorithms together with the elapsed time and the driving distance/profile to monitor and evaluate your vehicle's maintenance service needs. This information is then used to adapt dynamically the parameters used to forecast the applicable maintenance service task intervals.

THE BMW MAINTENANCE SYSTEM

All BMW vehicles are equipped with an integrated BMW Maintenance System. This maintenance "reminder" system helps ensure that the vehicle inspections and maintenance service tasks are performed at the forecasted intervals that apply to your vehicle.

The BMW Maintenance System display provides the vehicle operator access to the current status information for the following maintenance service tasks:

- ▷ Engine oil (date and miles)
- ▷ Vehicle check (date and miles)
- ▷ Front brake pads (miles)
- ▷ Rear brake pads (miles)
- ▷ Brake fluid (date)
- ▷ 1200 Mile running-in service (date and miles) (Applicable to BMW M vehicles only)

For each specific maintenance service task, either the future date (month/year), remaining miles or both are provided as noted above. The system monitors variable inputs to forecast the intervals and alert the driver when one or more specific maintenance tasks should be performed.

NOTE: For certain vehicles, the status of the front and rear brake pads will only be observable in the maintenance system's display when there are approximately 2,000 miles or less remaining before a brake service will be required to be performed.

For information about the vehicle's maintenance system displays, please refer to the Maintenance Service Display Overview section beginning on page 4.

The following "combine with Engine oil" maintenance service tasks may be identified as needing to be performed with a specific occurrence of the "Engine oil" service task (service counter number):

- ▷ Cabin Microfilter(s)
- ▷ Engine air filter(s)
- ▷ Spark plugs
- ▷ Final drive oil (Applicable M vehicles only)

Although these items do not appear in the BMW Maintenance System's display in the vehicle, these services should be performed when your vehicle's engine oil is changed in accordance with the interval identified by your vehicle's BMW Maintenance System.

For more information on your vehicle's maintenance services requirements, procedures and intervals, please refer the Maintenance Service Summary section beginning on page 8.

The BMW Maintenance System also includes an option to set service reminders for the following state-specific mandatory vehicle inspections, including:

- ▷ Vehicle safety inspection; and/or
- ▷ Emissions test

The corresponding interval data for these inspections can be inputted into the BMW Maintenance System by a service provider; they are not determined by the vehicle.

For your convenience, you may also wish to have your authorized BMW center perform the work necessary to fulfill these state inspection requirements in your area concurrent with the maintenance services specified above when possible.

Should you request more frequent maintenance service than is indicated by the BMW Maintenance System during the coverage period, the cost of these services will not be covered by the BMW Maintenance Program.

SERVICE DATA — REMOTE CONTROL KEY

Maintenance service task status information for your BMW vehicle is continually updated and stored in your remote control key.

Your authorized BMW center can access this data and consult with you about applicable service procedures and tasks for your vehicle.

Therefore, always provide your service consultant with the most recent remote control key that was used to operate the vehicle when servicing your vehicle at a BMW center.

VEHICLE STORAGE

Disconnecting the battery during periods of long-term vehicle storage will interrupt the calculation of time-dependent maintenance services.

In this situation, BMW recommends that you have all your time-based maintenance services, such as brake fluid, engine oil and cabin microfilter, brought up to the correct date by an authorized BMW center.

ENGINE OIL

2023 model year vehicles are factory-filled with:

- ▷ BMW-approved fully synthetic oil for gasoline engines

Engine oil should be changed when the vehicle's engine is at operating temperature.

If an engine oil service is being performed or you need to add engine oil between changes, please refer to the Owner's Manual for the recommended engine oil for your BMW vehicle.

LONG-TERM RATED FLUIDS AND OILS

The following systems and assemblies are factory-filled with long-term rated fluid and oil; fluid replacement is only necessary when repairs are being performed (unless otherwise noted):

- ▷ Engine cooling system (antifreeze/coolant)
- ▷ Automatic and manual transmissions
- ▷ All-wheel drive transfer cases (except when indicated by the vehicle)

REGULAR CHECKS — VEHICLE OPERATOR

In addition to the maintenance service procedure information contained in this booklet, BMW recommends that you regularly check (when refueling, for example), and address when necessary, the following items:

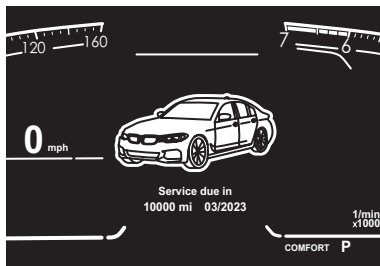
- ▷ Washer fluid level
- ▷ Engine oil level
- ▷ Coolant level
- ▷ Brake fluid level
- ▷ Tires — pressure, condition and wear

Please refer to the Owner's Manual for additional information.

MAINTENANCE SERVICE DISPLAY OVERVIEW

- ▷ **Condition Based Service (CBS)**
- ▷ **Condition Based Repair (CBR)**

SCREEN CONTENT INFORMATION



General reference; display may appear slightly different

On many models, the distance remaining until your next service briefly appears when you switch on the ignition. On most models, the engine must be running to show the next service.

On some models with the BMW Curved display, the distance until your next service will not display until the vehicle reaches approx. 2400 miles prior to the next service. Maintenance operations can be viewed by selecting the app "Vehicle Status", then proceeding as indicated below.

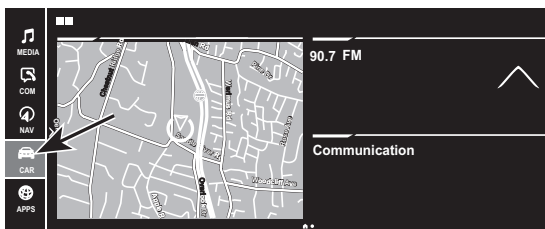
For certain maintenance operations, you can view the respective distance remaining or due date individually in the Control Display.

iDRIVE CONTROL DISPLAY SCREEN CONTENTS

The current Status of Service items determined by the CBS are shown in the Control Display.

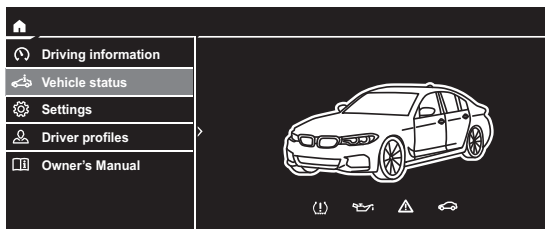
You can also view additional information on the service and maintenance requirements.

1. Open the start menu.
2. Press the controller to open the i-menu.
3. Select "Vehicle Info" ("CAR" for some models) and press the controller. On some models, you can alternatively use the touch-screen feature.



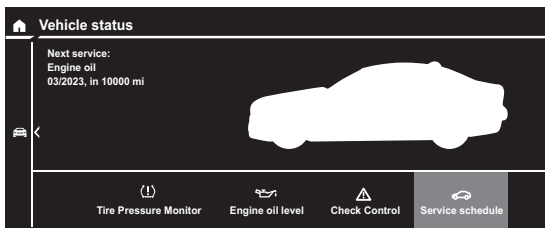
General reference; display may appear slightly different

4. If necessary, move the highlight marker. Turn the controller until "Vehicle status" is selected and press the controller.



General reference; display may appear slightly different

5. If necessary, move the highlight marker. Turn the controller until "Service required" ("Service schedule" for some models) is selected and press the controller.

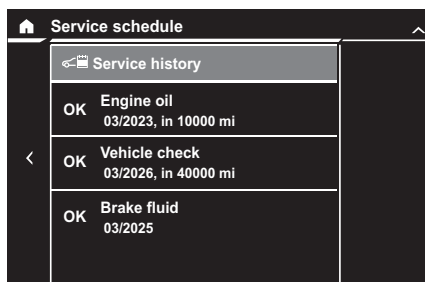


General reference; display may appear slightly different

A list of selected maintenance operations and, if applicable, inspections required by law is displayed.

You can request more detailed information on every entry.

Select the entry and press the controller.



General reference; display may appear slightly different

To exit from the menu:

Select the  arrow and press the controller.

SYMBOLS

 No service is currently required.

 The deadline for service or a state inspection is approaching.*

 The service deadline has already passed.

*BMW recommends you contact your authorized BMW center for an appointment when this "Service/Information — Approaching Deadline" symbol displays in place of "OK."

The current service status is automatically saved in the vehicle's key. The Service Advisor at your authorized BMW center has a device called a key reader. When your Service Advisor inserts your key into the key reader, all pertinent vehicle and servicing data will be available, and a customized maintenance checklist is printed out based on the specific operations called for by the Condition Based Service.

QUALITY CERTIFICATION I

A pre-delivery "Quality Certification I" inspection is performed on all new BMW vehicles prior to their first delivery.

1200 MILE RUNNING-IN SERVICE (INDICATED AS "BREAK-IN SERVICE" IN THE CONTROL DISPLAY)

M models only: The engines in these models are designed for high-performance which includes increased power output and maximum engine speeds compared to a conventional non-M engine. The increased power output also affects other major drivetrain components, such as the rear axle differential. On some models, the manual transmission is also affected.

Operation	M2, M3, M4, M5, M8, X3 M, X4 M, X5 M, X6 M, BMW XM
1200 mile running-in service	
Change engine oil and oil filter.	All
Change rear axle differential oil.	All
Deactivate running-in check using diagnostic tool path.	All

MAINTENANCE SERVICE SUMMARY

The maintenance service tasks outlined in this section are based on intervals of:

- ▷ Time; and/or
- ▷ Mileage; or combined with
- ▷ Performing a specified occurrence of a maintenance service task. Such intervals are primarily determined by the BMW Maintenance System unless otherwise noted in this booklet.

The information contained in this booklet is correct as of the "print date." BMW reserves the right to make changes to the vehicle's maintenance service parameters and intervals due to running vehicle production improvements (among other things).

Your authorized BMW center can utilize the most current applicable maintenance service information to determine which maintenance service inspections and service tasks need to be performed on your vehicle.

Models	2, 3, 4, 5, 7, 8 Series; Z4 Roadster	M2, M3, M4, M5, M8	X3 M, X4 M, X5 M, X6 M	X1, X2, X3 (excl. M), X4 (excl. M), X5 (excl. M), X6 (excl. M), X7, BMW XM
Standard scope				
Verify check control messages.	All	All	All	All
Check indicator and warning lights.	All	All	All	All
Reset CBS display.	All	All	All	All
Inspect tires, adjust tire pressures and reset Tire Pressure Monitor.	All	All	All	All
Check parking brake functionality while the vehicle is being driven into the workshop.	All	All	All	All
Check sunroof guide rails for excessive contamination.	All	All	All	All
Engine oil service				
Change engine oil and oil filter.	All	All	All	All
Maintenance services not shown in CBS display				
Every 2nd engine oil service (approx. 20,000 mi)				
Replace microfilter for optional 5-zone automatic climate control.				X7, ALPINA XB7
Replace ventilation microfilter.	All	All	All	All
Replace battery in remote control keys.	All	All	All	All
Check engine coolant level.				BMW XM
Every 3rd engine oil service (approx. 30,000 mi)				

Models	2, 3, 4, 5, 7, 8 Series; Z4 Roadster	M2, M3, M4, M5, M8	X3 M, X4 M, X5 M, X6 M	X1, X2, X3 (excl. M), X4 (excl. M), X5 (excl. M), X6 (excl. M), X7, BMW XM
Replace air filter element (more often in dusty conditions).	All	All	All	
Replace spark plugs.		All	All	
Every 4th engine oil service (approx. 40,000 mi)				
Replace air filter element (more often in dusty conditions).	All			All
Replace battery in remote control keys.	All	All	All	All
Check engine coolant level.				BMW XM
Every 5th engine oil service (approx. 50,000 mi)				
Change fluid in the rear axle differential.		All	All	BMW XM
Change fluid in the transfer case.		M3/M4 xDrive, M5, M8	All	BMW XM
Change fluid in front axle differential.				BMW XM
Every 6th engine oil service (approx. 60,000 mi)				
Replace spark plugs.	All	All	All	All
Replace transmission fluid				X1
Replace battery in remote control keys.	All	All	All	All
Check engine coolant level.				BMW XM
Maintenance services that display in CBS				
Front brakes				

Models	2, 3, 4, 5, 7, 8 Series; Z4 Roadster	M2, M3, M4, M5, M8	X3 M, X4 M, X5 M, X6 M	X1, X2, X3 (excl. M), X4 (excl. M), X5 (excl. M), X6 (excl. M), X7, BMW XM
Replace brake pads, clean brake pad contact points in calipers.	All	All	All	All
Brake discs: Check surface and thickness; replace as necessary.	All	All	All	All
Optional M Carbon Ceramic Brakes – visually check for brake disc wear using the surface wear indicators.		M3, M4, M5, M8		
Rear brakes				
Replace brake pads, clean brake pad contact points in calipers.	All	All	All	All
Brake discs: Check surface and thickness; replace as necessary.	All	All	All	All
Optional M Carbon Ceramic Brakes: Visually check for brake disc wear using the surface wear indicators.		M3, M4, M5, M8		
Parking brake: Repair or replace parking brake shoes/linings only if a reduction in the brake's effectiveness is noted. When fitted, parking brake shoes/linings are excluded from coverage under the BMW Maintenance Program.	All	All	All	All
Brake fluid				
Replace brake fluid.	All	All	All	All

Models	2, 3, 4, 5, 7, 8 Series; Z4 Roadster	M2, M3, M4, M5, M8	X3 M, X4 M, X5 M, X6 M	X1, X2, X3 (excl. M), X4 (excl. M), X5 (excl. M), X6 (excl. M), X7, BMW XM
Vehicle check				
Check operation of horn, headlight flasher and hazard warning flashers.	All	All	All	All
Check instrument and control lighting and heater/air-conditioning blower.	All	All	All	All
Check lighting system: Head and taillights, turn signals, back-up, license plate, interior (incl. map, reading lights), glovebox, luggage area lights. Equipped with BMW Curved Display: light switch inscriptions.	All	All	All	All
Safety belts: Check condition and function.	All	All	All	All
Check windshield wipers and washer jet positions.	All	All	All	All
Tires: Check tread depth, wear pattern, outer condition, inflation pressure (also spare, if equipped). If necessary, correct pressure (also spare).	All	All	All	All
Reset Tire Pressure Monitor.	All	All	All	All
12V Battery: Check state of charge and charge, if required.	All	All	All	All
Visually inspect all SRS airbag units for torn covers, obvious damage or attachment of stickers.	All	All	All	All
Rear-view mirrors, rear-view camera.	All	All	All	All

Models	2, 3, 4, 5, 7, 8 Series; Z4 Roadster	M2, M3, M4, M5, M8	X3 M, X4 M, X5 M, X6 M	X1, X2, X3 (excl. M), X4 (excl. M), X5 (excl. M), X6 (excl. M), X7, BMW XM
Engine coolant: Check fluid level and concentration. Caution: Perform on cold or cooled engine.	All	All	All	All
Check coolant level and concentration in both reservoirs (for gasoline engine and electric motor electronics).	330e, 530e	All		X5 xDrive45e
Windshield washer and intensive cleaning systems: Check protection level, fluid level; top off if necessary.	All	All	All	All
Check expiration date on the Mobility System sealant bottle. Change sealant bottle, if needed.	All with non run-flat tires	All	All	
Check the occasional use or Flexible Fast charging cable for damage (cuts, breakage, deformation), corrosion and wear.	330e, 530e			X5 xDrive45e, BMW XM
Check the charging cable port for damage, corrosion and wear.	330e, 530e			X5 xDrive45e, BMW XM
Brake system connections and lines: Check for leaks, damage and correct positioning.	All	All	All	All
Underbody, including all visible parts (i.e., transmission, rear axle, fuel lines, exhaust system): Check for damage, leaks and corrosion.	All	All	All	All

Models	2, 3, 4, 5, 7, 8 Series; Z4 Roadster	M2, M3, M4, M5, M8	X3 M, X4 M, X5 M, X6 M	X1, X2, X3 (excl. M), X4 (excl. M), X5 (excl. M), X6 (excl. M), X7, BMW XM
Steering components: Check for clearance, leaks, damage and wear. Steering rack end boots for tears, and presence of retaining clamps. No play at tire rod ends.	All	All	All	All
Final inspection: Road test with check of: brakes, steering, shock absorbers (visual), transmission.	All	All	All	All
Oxygen sensor				
150,000 miles	All	All	All	All

*Carbon Ceramic Brake System brake rotors and pads are not covered under the BMW Maintenance Program.

THE BMW ULTIMATE CARE SCHEDULED MAINTENANCE PROGRAM

A 2023 vehicle purchased from an authorized BMW center in the United States (including Puerto Rico) is covered by the BMW Ultimate Care Scheduled Maintenance program for 36 months or 36,000 miles, whichever occurs first.

Coverage begins on the date of first retail sale or the date the vehicle is first placed into service as a sales demonstrator, Aftersales Mobility Program (AMP) Vehicle or BMW Group company vehicle, whichever is earlier (the vehicle's original in-service date). The remaining BMW Maintenance Program coverage described in this booklet is transferable to any subsequent owners.

Any authorized BMW center in the United States (including Puerto Rico) will perform the eligible maintenance services listed in the "What is Covered" section on your vehicle at no expense to you so long as your vehicle qualifies for this coverage.

WHAT IS COVERED

The BMW Ultimate Care Scheduled Maintenance Program covers the following factory-recommended maintenance services when they are identified as needing to be performed by the BMW Maintenance System:

- ▷ Engine oil (including the oil filter)
- ▷ Brake fluid (Replacement)
- ▷ Vehicle check (Inspection)
- ▷ 1200 Mile running-in service (Applicable BMW M vehicles only: Break-in service)

And, in conjunction with one or more of the items listed above, the:

- ▷ Standard scope (Procedure)

Additionally, the following "combine with Engine oil" maintenance service tasks are also covered when they qualify to be performed:

- ▷ Cabin microfilter(s)
- ▷ Remote control key battery
- ▷ Engine air filter
- ▷ Spark plugs
- ▷ Final drive oil (Applicable M vehicles only)

****As determined by the vehicle's maintenance system "Engine oil" service counter "number."**

If a covered maintenance service task's procedure specifies the inspection of components with a performable adjustment, when required and in conjunction with performing this maintenance service, these adjustments are also covered.

For more information on your vehicle's maintenance service requirements, procedures, intervals, please refer to the Maintenance Service Summary section beginning on page 8.

WHAT IS NOT COVERED*

The BMW Ultimate Care Scheduled Maintenance Program does not cover the following:

- ▷ Front and rear "standard" brake pads and discs (non-drilled/drilled)
- ▷ Front and rear "optional" carbon ceramic brake pads and discs
- ▷ Parking brake shoes/linings
- ▷ Wiper blade assemblies and inserts
- ▷ Engine drive belt

*See the Maintenance Program Upgrade and Extension Options (BMW Ultimate Care +) section on page 19.

SCOPE OF MAINTENANCE

Irrespective of the maintenance program coverage that applies to your vehicle, to help ensure your vehicle is properly maintained, BMW recommends that you always adhere to the "full scope" of applicable maintenance procedures and instructions specified in the Maintenance Service Summary section beginning on page 8.

Maintenance service tasks not covered by the maintenance program can be performed by an authorized BMW center at your expense upon your approval.

You are free to have maintenance service tasks performed by other service facilities. However, any service performed by someone other than an authorized BMW center is not eligible for reimbursement under the BMW Maintenance Program.

While you may elect to use non-genuine BMW parts for maintenance or repair services, BMW is not obligated to pay for repairs of the non-genuine BMW parts or for repairs of any damage resulting from the use of non-genuine parts.

BMW recommends that you keep a record of all maintenance and repairs performed on your vehicle.

ADDITIONAL EXCLUSIONS FROM THE BMW ULTIMATE CARE SCHEDULED MAINTENANCE PROGRAM

- ▷ Vehicle safety inspection
- ▷ Vehicle emissions test
- ▷ Oxygen Sensor(s) replacements
- ▷ Maintenance service tasks performed on a vehicle with an ineligible/inactive/expired maintenance program
- ▷ Repairs covered under your New Vehicle Limited Warranty for Passenger Cars and Light Trucks
- ▷ Covered maintenance services task performed by service facilities other than an authorized BMW center in the United States and Puerto Rico
- ▷ Engine oil services and other covered maintenances service tasks including the "combined with Engine oil" services that are performed before they qualify or that are performed more frequently than indicated
- ▷ Gasoline fuel
- ▷ Gasoline fuel additives
- ▷ Gasoline engine fuel filter
- ▷ DMTL and NVLD system filters
- ▷ "Topping off" low fluids (e.g., coolant system antifreeze, washer fluid, etc.) except when done in conjunction with a covered scheduled maintenance service (as outlined in the customized maintenance checklist printout)
- ▷ Tires and wheels/rims
- ▷ Wheel alignment, tire balancing and rotation
- ▷ Tire Pressure Monitor (TPM) reset except when done in conjunction with a covered scheduled maintenance service (as outlined in the customized maintenance checklist printout)
- ▷ Wear and tear of soft trim items, such as: seats, carpets, moldings, headliner, door panels and all chrome trim
- ▷ Damage, including consequential, which results from negligence, improper operation of the vehicle, wear and tear or deterioration due to driving habits or conditions, improper repair, environmental influences, flood, accident or fire damage, road salt corrosion, alteration, installation of non-genuine BMW parts or accessories, or use of improper, poor-quality or contaminated fuel
- ▷ Altered or unreadable Vehicle Identification Number (VIN) or odometer irregularities or vehicles where the true mileage cannot be determined

- ▷ Maintenance services or repairs performed after a vehicle is deemed a total loss or sold for salvage
- ▷ Vehicles used in competitive events

MAINTENANCE PROGRAM UPGRADE AND EXTENSION OPTIONS (BMW ULTIMATE CARE +)

BMW recommends you contact your authorized BMW center regarding the availability and purchase of a maintenance program upgrade/extension (enhancing and/or extending the maintenance program's coverage). Vehicle eligibility requirements and coverage exclusions apply.



WARNING: Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to **www.P65Warnings.ca.gov/passenger-vehicle**.



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2023 BMW All Models Maintenance

Printed in U.S.A. 04/2024

5A6B140



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