



This Service Information Bulletin (Revision 6) replaces SI B00 02 17 **dated July 2020**.

**What's New** (Specific text highlighted):

- F90 maintenance oils clarified

## MODEL

F06 (6 Series Gran Coupe)	F12 (6 Series Convertible)	F22 (2 Series Coupe)	F23 (2 Series Convertible)
F30 (3 Series Sedan)	F31 (3 Series Sports Wagon)	F32 (4 Series Coupe except M4)	F33 (4 Series Convertible except M4)
F34 (3 Series Gran Turismo)	F36 (4 Series Gran Coupe)	F80 (M3 Sedan)	F82 (M4 Coupe)
F83 (M4 Convertible)	F87 (M2 Coupe)	F90 (M5 Sedan)	G12 (7 Series Sedan)
G30 (5 Series Sedan)	G32 (6 Series Gran Turismo)		

## SITUATION

Model	Production Start*	Comments
230i, M240i Coupe incl. xDrive	July 2017	Life cycle Impulse (LCI) changes
M2 Coupe	July 2017	Life cycle Impulse (LCI) changes
230i, M240i Convertible incl. xDrive	July 2017	Life cycle Impulse (LCI) changes
320i, 320i xDrive, 330e iPerformance, 330i, 330i xDrive, 340i, 340i xDrive Sedan	July 2017	Receives iDrive 6 without touch-screen
328d xDrive, 330i xDrive Sports Wagon	July 2017	Receives iDrive 6 without touch-screen
M3 Sedan	July 2017	Receives iDrive 6 without touch-screen
M3 CS Sedan	July 2018	Special-edition new model. Engine rated at 453 bHp and 443 lb. ft torque. Available only with the M-DCT with Drivelogic 7-speed transmission.
330i, 340i xDrive Gran Turismo	July 2017	Receives iDrive 6 without touch-screen
430i, 440i Coupe; incl. xDrive	March 2017	Life cycle Impulse (LCI) changes
M4 Coupe	March 2017	Life cycle Impulse (LCI) changes
430i, 440i Convertible; incl. xDrive	March 2017	Life cycle Impulse (LCI) changes
M4 Convertible	March 2017	Life cycle Impulse (LCI) changes
430i, 440i Gran Coupe; incl. xDrive	March 2017	Life cycle Impulse (LCI) changes
M550i xDrive Sedan	March 2017	New model. N63B44O2 4.4 liter V8 engine, aka N63TU2. New coolant level check at 2 <sup>nd</sup> Engine Oil Service.
530e, 530e xDrive iPerformance Sedan	March 2017	New model. Plug-in Hybrid Vehicle (PHEV) with B46 2.0-liter 4-cyl. gas engine, and 111 bHp electrical machine
530i, 530i xDrive, 540i, 540i xDrive Sedan	July 2017	No changes to QC1 compared to 2017 models. New coolant level check at 2 <sup>nd</sup> Engine Oil Service for 6-cylinder models.
540d xDrive Sedan	February 2018	New model. B57D30O0 3.0-liter 6-cyl. diesel engine rated at 261 hp and 457 lb. ft torque. Available only with xDrive and 8 speed Steptronic sport automatic

		transmission. New coolant level check at 2 <sup>nd</sup> Engine Oil Service.
M5 Sedan	November 2017**	New model. S63B44T4 4.4-liter 8-cyl M TwinPower Turbo technology engine rated at 600 bhp and 553 lb. ft torque. Available only with the new 8-speed M Steptronic transmission with Drivelogic. 4 wheel xDrive can be switched to 2 wheel drive using M xDrive settings.
640i, 640i xDrive; 650i, 650i xDrive, M6 Convertible	July 2017	Receives iDrive 6 without touch-screen
640i xDrive Gran Turismo	July 2017	New model. Successor to the 2017 5 Series Gran Turismo (F07). New coolant level check at 2 <sup>nd</sup> Engine Oil Service.
640i, 640i xDrive; 650i, 650i xDrive, M6 Gran Coupe, BMW ALPINA B6 xDrive Gran Coupe	July 2017	Receives iDrive 6 without touch-screen.
740i, 740i xDrive, 750i, 750i xDrive, M760i xDrive, 740e xDrive (PHEV), BMW ALPINA B7 xDrive Sedan	July 2017	Receives iDrive 6 with touch-screen. New coolant level check at 2 <sup>nd</sup> Engine Oil Service for 6 and 8-cylinder models.

\* Available April 2017

\*\* Available March 2018

Note: The 5 Series Gran Coupe (F07) and the 6 Series Coupe (F13) are no longer offered for model year 2018.

17-digit Vehicle Identification Number (VIN): The 10th digit (model year identifier) utilizes the letter "J" for MY 2018.

A reference chart for 2018 BMW models 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 systems on PHEV iPerformance models:

**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

### **M3 CS:**

A special edition F80 model, comparable to the M3 with the Competition Package option. Some of the M3 CS' features are:

- M Driver's Package is standard equipment, enabling a higher top speed (after completion of the 1200 Mile Running-in Service)
- M Sport exhaust system
- Competition Package is standard equipment, containing various suspension and brake component upgrades
- Uniquely styled staggered-diameter light alloy rims with Performance tires
- Factory-installed air splitter at the bottom edge of the front bumper
- CFRP "Gurney Flap" trunklid spoiler
- Rated as a full 5-seater

For more information, refer to either:

- Official Press Release: <http://www.bmwusanews.com/newsrelease.do?id=3108&mid=439>
- Product Knowledge on Demand (PKoD) in DealerSpeed, then in the section "Vehicles" select "M", then "M3 Sedan (F80 CS)".

### **M5 Sedan:**

The 6<sup>th</sup> generation of high-performance sports sedans returns, with more technology and higher performance than any predecessor. For details, refer to either the official press release:

<http://www.bmwusanews.com/newsrelease.do?id=3116&mid=448>

Or refer to Product Knowledge on Demand (PKoD) in DealerSpeed, then in the section "Vehicles" select "M", then "M5 Sedan (F90)".

### **640i xDrive Gran Turismo:**

For details, refer to either the official press release:

<http://www.bmwusanews.com/newsrelease.do?id=2995&mid=113>

Or refer to Product Knowledge on Demand (PKoD) in DealerSpeed, then in the section "Vehicles" select "6 Series- 2018 Gran Turismo (G32)"

### **2 Series Life Cycle Impulse; all models:**

For details, refer to the official press release: <http://www.bmwusanews.com/newsrelease.do?id=2945&mid=401>

### **4 Series Life Cycle Impulse; all models:**

For details, refer to Product Knowledge on Demand (PKoD) in DealerSpeed, then in the section "What's New on PKoD" select "[4 Series Coupe/Convertible/Gran Coupe LCI Model Year Changes](#)".

### **M550i:**

For details, refer to Product Knowledge on Demand (PKoD) in DealerSpeed, then select "The all-new BMW 5 Series Sedan", "Learn more", "Technical data MY2018 530e and M550i", and/or "MY2018 530e and M550i Start of Communication".

### **530e iPerformance:**

For details, refer to Product Knowledge on Demand (PKoD) in DealerSpeed, then follow the paths as per the M550i.

## Quality Certification 1

A new QC1 form has been developed for the 2018 models covered in this bulletin: P/N 01 00 2 452 679 (print date 12/17). Refer to [Attachment 1](#).

M3 CS:

- Use unleaded premium gasoline, minimum 91 AKI. Rated power is achieved with 93 AKI. Other QC1 operations are identical to the 2018 M3.
- The front splitter is already attached to the bottom of the front bumper. No additional work is needed.

M5 Sedan: Use unleaded premium gasoline, minimum 91 AKI. Rated power is achieved with 93 AKI.

Road test portion of the QC1: The M5 utilizes a newly designed M gear selector lever.



1. Drivelogic selection for transmission shifting characteristics. The respective program is shown in the center of the instrument cluster.

2. Gear indicator display with M-specific shift pattern.

3. Transmission "Park" button.

Other console switches:

4. DSC button. Press briefly or prolonged to switch off DSC, select M Dynamic Mode (MDM), or M xDrive (see below).

5. SETUP goes directly to the M Setup menu in the CID for the engine, suspension and steering response.

6. “Shortcut” buttons for changing engine response, suspension dampening, and steering response.

7. Exhaust sound control; when switched on, the vehicle exhaust produces a more aggressive sound.

M Dynamic Mode: This feature, already available on other M models, raises the threshold of DSC brake intervention and engine power reduction to enable sportier driving. 4WD mode is maintained.

- Select MDM using the iDrive paths “My vehicle”- “M Setup”- “Configure M1 (or M2)”- “DSC” – “MDM”- select the desired drive program.

M xDrive: A new feature which deactivates DSC, selectable for driving only with 2WD. Three drive programs are available only after DSC is turned off (prolonged press on the DSC button).

- Select either 4WD, 4WD Sport or 2WD using the iDrive paths “My vehicle”- “M Setup”- “Configure M1 (or M2)”- “M xDrive”- select the desired drive program.



The instrument cluster indicates two new icons (arrows) when the vehicle has been configured for 2WD mode via the M xDrive menu (DSC set to fully off).

Full DSC and 4WD will automatically be active by default at the next vehicle start. “Last user mode” for the M configurations is not possible.

540d xDrive Sedan: Use Ultra Low Sulfur Diesel, which contains a maximum of 15 parts per million (ppm) of sulfur.

### Equipment changes as of 7/2017 vehicle production which affect QC1:

G30 (all models except 530e iPerformance):

MSA Connected, also known as Intelligent Engine Start/Stop, is standard equipment as of 7/2017. It is a further development of Automatic Start/Stop, and now defaults to active mode at every key cycle. The driver-selectable deactivation which keeps the engine running when the vehicle is stationary only applies to the current drive. Last-user mode deactivation is no longer supported. Do not attempt to program the vehicle per [B12 15 12](#) to permanently deactivate MSA.

MSA Connected utilizes Navigation which is another standard equipment feature. MSA Connected anticipates upcoming road intersections via the vehicle’s current GPS position to enable a smoother transition between a potential vehicle stop and automatically shutting off the engine. Some examples are:

- Intention to turn onto a cross-street with turn signals activated
- Signal-regulated urban superhighway on-ramp (aka “ramp meter”)
- Traffic circle
- Residential intersection with stop sign/signal

G30 equipped with the optional driver assistance systems (option codes 5AS or 5AT) also utilize the KAFAS camera as well as the active cruise control radar to provide additional input on traffic conditions for which the engine remains running. MSA Connected defaults back to active mode at every engine start to enable maximum benefit from this technology.

The G32 utilizes the same QC1 procedures as the G30.



F22, F23:

The engine oil temperature display is integrated into the on-board computer (OBC) in the instrument cluster. Select the display using the turn signal stalk OBC button.

F22, F23, F87:

- Latching turn signal stalk such as first seen in the G30
- Redesigned wiper/washer function stalk

F22, F23, F30, F31, F36, F80, F87:

- iDrive 6.0
- Deletion of the telephone base plate in the center console armrest

F22, F23, F30, F31, F34, F87:

- Deletion of the "AUX IN" plug by the USB port in the center console. The USB port remains.

F30, F31:

- LED headlights are standard equipment

F34:

- The air breathers in the front fenders no longer provide a functional exit for the air. They have been repurposed as a decorative element.

G30:

- The remote keys' integrated "skeleton key" utilizes a plastic grip, instead of zinc alloy

G30 except 530e iPerformance:

- The storage bin for the first-aid kit in the trunk left side panel has been deleted

G12:

- Redesigned pedals when equipped with the M Sport Package (option code SA337)
- Minor changes to the climate control display symbols


The only new function which affects QC1 is that the iDrive6 utilizes user-changeable tiles in the Central Information Display. Since the CID does not feature a touch-screen, change the tile arrangement as follows:

- Press iDrive controller "MENU" button twice to get to the 6-tile screen
- Select the tile you want to move
- Tilt the controller to the right or left to move the tile to the desired location

### 530e:

The recommended fuel grade for the 530e is premium unleaded 91AKI, min. 89AKI. Note that the fuel tank capacity is approx. 33% less than a non-PHEV 5 Series (12.1 gal. vs 18.0 gal.).

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

 <p>GRUSB0017-10</p>	<p>When preparing to add gasoline, press the filler flap release button 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.</p> <p>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.</p> <p>The remaining ventilation time is displayed in the instrument cluster.</p>
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Note: If the fuel flap is not opened within approx. 10 minutes after it was unlocked, the flap will lock automatically.

Fully charge the HV battery. The access port is located in the front left fender behind the body flap. Use either the Occasional Use Cable (OUC; also referred to as Level 1) or the HV wallbox (Level 2 charger). The OUC is supplied with the vehicle, stored in a padded bag in the left storage bin of the trunk.

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

The HV battery's charging status is displayed via the charge indicator light at the charging socket. A reference label with these various charging statuses is found on the body flap.

- 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.

- If your center does not intend to immediately prepare the vehicle for display, charge the HV battery right away. This usually holds the HV state of charge until you can deactivate transport mode (TM). 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".
- Set the charge rate to "reduced" in the central information display via the path Menu/My Vehicle- Plan charging/climate control/ Charging rate settings- Level 1 (120V)- Reduced

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

Two ChargeNow cards are included in the ChargePoint brochure with the vehicle document portfolio, intended for use at public charging stations.

### **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.** You are legally required to perform Recalls before selling or leasing a vehicle. 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 or deliver any vehicle until all recall repairs have been performed. This means that centers may not legally deliver new motor vehicles 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.**

### **Maintenance**

G12, G30, G32 with 6 or 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 June 2020, this new operation will display in ISPA Next that applies to the high-temperature circuit. Vehicles which have already received the 2<sup>nd</sup> 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 all 2018 models except M
- Refer to **Attachment 4** for the maintenance operations on the 2018 BMW M models

All models: Replace the battery on the remote key at the 2<sup>nd</sup> Engine Oil Service. Refer to [B66 02 11](#)



M3 CS: Due to its larger oil pan, engine oil change capacity is increased from 6.5 liters to 7 liters. All other maintenance requirements are the same as on the non-CS M3.

#### 540d xDrive Sedan:

- Engine oil: BMW recommends TwinPower Turbo SAE 0W-30 (fully synthetic) LL-12FE, P/N 83 21 2 365 951
- Engine oil capacity including oil filter change: 6.5 liters

The engine intake air filter replacement interval has been extended from every 3<sup>rd</sup> to every 4<sup>th</sup> Engine Oil Service. This change will be indicated in the 8/2018 versions of KSD, ISTA, and ISPA Next.

The 540d utilizes the 3rd generation of Selective Catalyst Reduction (SCR 3) for converting the combustion by-product nitrogen oxides into harmless nitrogen, carbon dioxide and water.

- At each Engine Oil Service, top off the Diesel Exhaust Fluid (DEF), P/N 83 19 0 440 158 (2.5 gal. container). The DEF filler cap is located adjacent to the fuel filler cap.
- The combined DEF reservoir capacity for the active and the passive tanks is approx. 5.5 gallons.

The DEF fill should be sufficient to last between scheduled engine oil changes. If the supply runs low, the instrument cluster warning lamp will indicate the estimated remaining distance which the vehicle may be driven; starting at approx. 1000 miles before depletion. At approx. 200 miles remaining, the warning lamp will illuminate again, with the miles counting down to 0.

Once the distance reaches 0 miles (shown by “- -” with the warning lamp symbol), the car will not start up again until DEF is refilled. This is done so that the vehicle meets federal emissions regulations. However, the DEF system does allow one single “emergency” engine start at “0” miles, provided that you start the engine within 3 minutes of last shutting it off.

If the remaining distance until DEF is depleted is less than the distance until the next Engine Oil Service per the CBS display, add at least 2.5 gallons of DEF.

#### M5 Sedan: Operating fluids overview

Component	Replacement interval (also refer to Attachments 2 & 4)	Operating fluid	P/N (always confirm in ATLAS)	Fill qty, liters
Engine	1200 mi, then at every engine oil service (10,000 mi.)	Recommended: BMW TwinPower Turbo SAE 0W-30 LL01FE, fully synthetic	83 21 2 365 950 1 liter (contained in a case of 12 bottles)	10
Front differential	1200 mi, then at every 5th engine oil service	Hypoid axle oil G2	83 22 2 413 511 (0.5 liter bottle)	0.6
Active M rear differential	1200 mi, then at every 5th engine oil service	Hypoid axle oil G4	83 22 2 447 362 (0.5 liter bottle)	1.0
Transfer case	At 5th engine oil service	DTF1	83 22 2 409 710, 1 liter bottle	0.7

The fluid in the M automatic transmission M8HP75 has a long-term rating which does not need replacement except if repairs are needed.

#### M550i xDrive engine compartment:

The N63TU2 engine is equipped with a mechanical dipstick (arrow) for the engine oil level, located adjacent to the oil filler



cap.

Utilize the dipstick to check the engine oil level, or obtain the level via the iDrive. Use the same path as for other vehicles with the electronic oil level sensor: My vehicle- Vehicle status- Measure engine oil level- Start measurement.



530e engine compartment.

1. HV system emergency disconnect
2. Coolant reservoir for Electrical Machine Electronics, and Convenience Charging Electronics
3. Coolant reservoir for engine
4. Emergency release knob for HV charging port

## General Notes

Service and Warranty Information booklets are 2 separate booklets. The part numbers are shown for identification purposes only. They are not available via ATLAS.

2, 4, 6 Series (except M models) Warranty booklet	01 00 2 344 303 (print date 11/2017)
3, 5, 7 Series Warranty booklet	01 00 2 344 304 (print date 11/2017 includes the 540d xDrive)
M2, M3, M4, M5, M6 Warranty booklet	01 00 2 344 305 (print date 11/2017)
All models Maintenance booklet	01 00 2 344 125 (print date 11/2017)

## PARTS INFORMATION

Part Number	Description	Quantity
P/N 01 00 2 452 679 (print date 12/2017)	Quality Certification I form (2018 2 through 7 Series)	1 pack  (= 25 forms)

## WARRANTY INFORMATION

Reimbursement of the BMW Pre-Delivery Inspection (Quality Certification 1) on 2018 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:	11 99 99 77 BV
Labor Operation:	00 00 012
Flat Rate Units:	Refer to KSD2

Refer to KSD2 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 either from Plant Spartanburg, South Carolina, or from the VDC (Vehicle Distribution Center) which serves your region. 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.
- VDCs affix a small orange-colored label onto the center console near the transmission selector lever which reads “QC1 already done at VDC!” If this label is found, remove it prior to delivery to the employee.

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.

### 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	Submit an IDS ticket to the Warranty Department
Parts inquiries	Submit an IDS ticket to the Parts Department

Supporting Materials

[picture as pdf B000217 Attachment 3 maintenance requirements all but M Rev5 7\\_20.pdf](#)

[picture as pdf B000217 Attachment 2 CBS intervals Rev5 7\\_20.pdf](#)

[picture as pdf B000217 Attachment 4 maintenance requirements M models Rev2.pdf](#)  
[picture as pdf B000217 Attachment 5 2018 BMW Group models 6\\_18.pdf](#)

Videos

[00 02 18](#)