

This Service Information bulletin supersedes SI B00 01 10 **dated June 2011.****MODEL**

1 Series Coupe and Convertible (E82, E88)	 1 Series ActiveE (E82E)	3 Series Sedan, Sports Wagon, Coupe, Convertible (E90, E91, E92, E93)	528i, 535i, 535xi, 550i, 550xi Sedan (F10)
535i, 535xi, 550i, 550xi Gran Turismo (F07)	740i/Li (F01, F02)	750i/Li incl. xDrive versions (F01, F02)	760Li (F02)
BMW ALPINA B7 incl. xDrive (F01, F02)	ActiveHybrid 7 (F04)	Z4 Roadster (E89)	

SITUATION

Model	Production Start*	Comments
1 Series	10-Mar	135i receives new N55 single-turbo 6-cyl. engine and optional 7-speed dual-clutch (DCT) transmission.
 1 Series ActiveE	7/10***	4-seater, fully electric version of the 1 Series Coupe, limited to 700 vehicles. Engineering designation E82E. For more information including a special QC1 procedure and submission process, refer to B00 08 11 .
1 Series M Coupe	3/11**	Limited production Motorsport model, with 335hp high-output version of N54 twin-turbo engine.
3 Series Sedan; Sports Wagon	10-Mar	335i receives new N55 engine and optional 7-speed DCT transmission.
3 Series Coupe; Convertible	10-Mar	LCI changes.
335is Coupe and Convertible	10-May	New models with 320hp high-output version of N54T twin-turbo engine and optional 7-speed DCT transmission.
528i Sedan	10-Jun	Completely new model, successor to the E60. Engineering designation F10.
N52TU engine rated at 240hp, and 230 lb.ft of torque.		
535i, 550i Sedan incl. xDrive versions	3/10**	Completely new model, successor to the E60. Engineering designation F10.
535i utilizes new N55 engine; the 550i utilizes the N63 twin-turbo V8. xDrive versions start production as of 9/10.		
535i, 550i Gran Turismo incl. xDrive versions	10-Sep	No change in maintenance from 2010 models.
740i/Li	10-Mar	New model with 315hp version of N54 engine and 8-speed transmission

750i/Li	10-Mar	8-speed automatic transmission. No other maintenance changes from 2010.
760Li	10-Sep	No maintenance changes from 2010.
ActiveHybrid 7	10-Apr	New model within 7 Series, classified as a mild hybrid. Engineering designation F04, available in short and long wheelbase versions.
BMW ALPINA B7 incl. xDrive	10-Mar	Exclusive, high-performance version of 7 Series, available in short and long wheelbase versions. xDrive versions start production as of 9/10.
Z4 sDrive30i, sDrive35i Roadsters	10-Mar	Z4 sDrive35i retains the 300hp N54 engine; 7-speed DCT transmission is optional.
Z4 sDrive35is Roadster	10-Mar	New model with 335hp high-output version of N54T engine. Available only with the 7-speed DCT transmission.

* Availability approx. 1 month later

** Availability approx. 2 months later

*** Limited availability as of January 2012

Note: There will be no 6 Series, M5, or 5 Series Sports Wagon for the 2011 model year.

General Precautions regarding the High-voltage System in the ActiveHybrid 7:

The ActiveHybrid 7 utilizes modern materials and powerful electronics which require special maintenance and repair methods. There is the risk of fatal injury from the high-voltage (HV) system if repair work is performed improperly.

- Only technicians who have successfully completed HV and hybrid technology training classes may perform repairs or maintenance on this model.
- Diagnosis and repair operations listed in the 3G workshop equipment must be followed precisely.
- Do not repair or open HV components. It is only permitted to replace the component.

To de-energize the HV system, refer to the section in “Operating the ActiveHybrid 7 Drive System”.

New features

17-digit Vehicle Identification Number (VIN): The 10th digit (model year identifier) utilizes the letter “B” for MY 2011.

All 7 Series (except the ALPINA B7) will receive an 8-speed automatic transmission as standard equipment. The specific transmission depends on the torque capabilities of the engine:

- 740i gets 8HP45
- 750i, as well as the ActiveHybrid 7, get 8HP70
- 760Li gets 8HP90. Refer to [SI B00 01 09](#).

The new 6-cylinder N55 “Twin Power” engine is utilized in the 135i Coupe and Convertible; 335i Sedan, Coupe and Convertible; and 535i Sedan (F10). Refer to SI B00 01 09.

The N54T engine, available in the 1 Series M Coupe, Z4 sDrive35is; 335is Coupe and Convertible; and the 740i features increased power from different DME programming. An oil cooler is added to the engine lubrication circuit.

New features as of 9/10 vehicle production which affect Quality Certification 1 (QC1):

BMW Assist with extended Bluetooth - Depending on the mobile device, additional features include Mobile Office, External Call Lists, and Bluetooth Music Streaming.

1 & 3 Series (except M3 versions) - The HiFi Stereo Sound System replaces the Basic Sound System as standard equipment.

1 Series equipped with optional Comfort Access (aka keyless entry) now have ground-illuminating lights in the door handles.

M3 (all versions) equipped with either the standard-equipment manual transmission or the optional M-DCT (Double-clutch transmission) - The Automatic Stop/Start function stops the engine when the vehicle is fully stopped under certain operating conditions to improve fuel economy. This feature can be deactivated by a switch in the center console.

Refer to the QC1 section of this bulletin for an overview of the Auto Stop/Start's operation.

M3 (all versions) - M Drive becomes standard equipment. This steering wheel button activates the settings which can be programmed for the driver's preference as to stability control, steering mode, upshift light, and Electronic Damping Control (EDC).

M3 Sedan, Coupe - Manual seat adjustment becomes standard equipment for the benefit of weight savings and cost reduction. Electric seat adjustment is still available as an option under the Premium Package 2. The M3 Convertible maintains electric seat adjustment as std. equipment.

1 Series M Coupe (E82)

BMW's M division introduces its M version of the 1 Series Coupe. It achieves exceptional power delivery and near-perfect driving behavior expected of a BMW M automobile. Some of the differences to the 135i:

- Redesigned front fascia with three large engine air intakes, and integrated aerodynamic air curtains
- Flared wheelwell openings to accommodate the wider track dimensions
- Redesigned rear bumper with air diffuser
- Aerodynamically optimized exterior rear-view mirrors
- Front fender chromed side gill element, containing the M badge and the side turn signal repeater
- M-tuned rear axle and suspension with mostly aluminum components
- Variable M-differential locking rear axle differential
- High-output version of the N54 twin-turbo, direct-injection engine
- Low-restriction, acoustically-engineered exhaust system with the M-traditional 4-tips
- Alcantara leather interior trim
- Anthracite-colored headliner
- M badge on door sill trims
- M Drive steering wheel button for programming and changing various settings
- M Mobility system for the conventional (non run-flat) tire design

UPDATE! Refer to Attachment 1 for a comparison of selected specifications between the 1 Series M Coupe and the 2011 135i Coupe with the standard-equipment manual transmission.

Brief summary of new features on the 2011 3 Series Coupe and Convertible

The 2011 3 Series Coupe and Convertible are receiving numerous equipment and design changes as part of the Life Cycle Impulse (LCI):

- Front bumper
- Headlamps
- Hood
- Kidney Grill
- Rocker panels
- Tail lamps
- Interior material and trim enhancements
- New optional Car Information Computer (CIC) and iDrive
- N55 engine on 335i models

5 Series Sedan (F10)

BMW introduces the 6th all-new generation of its mid-size sedan. It incorporates a full redesign in styling, engineering, and equipment compared to its E60 predecessor. Just like all previous 5 Series, the F10 is built in the town of Dingolfing, in Germany's state of Bavaria.

Some key features of the new 5 Series Sedan:

- Aluminum doors, front fenders, and hood
- Multi-link double-wishbone front suspension design instead of MacPherson struts
- Brake Energy Regeneration, with an electronically controlled clutch on the alternator which only engages to charge the battery during deceleration or braking. This increases engine efficiency.
- Electric Power Steering (EPS)
- 4th generation iDrive with 7" Central Information Display (CID) screen (10.2" with optional Navigation system)
- Center console electronic shifter ("E-Shift") for the optional 8-speed automatic transmission (8HP70 for the 550i; 8HP45 for the 535i and 528i)
- N63 twin-turbo V8 engine for the 550i, N55 engine for the 535i, and N52TU for the 528i
- Electronically actuated parking brake instead of a traditional mechanical "handbrake"
- Optional Lane Departure Warning, Active Blind Spot Detection, High-beam Assistant, Side View cameras
- Optional Integral Active Steering (IAS) with speed-sensitive rear wheel steering
- Optional Parking Assistant supports the driver to safely maneuver into parking spaces situated parallel to the road.

The 5 Series' battery state-of-charge (SOC) can be checked when the transport mode is active; this is useful when the vehicle is in storage prior to performing the QC1. Refer to [SI B00 04 08](#).

UPDATE!

Refer to Attachment 2 for a comparison of selected specifications between the new 2011 535i sedan (F10) to the 2010 535i Sedan (E60) with standard-equipment manual transmission.

BMW ALPINA B7

The BMW ALPINA B7 is an exclusive, limited production, high-performance version of the 750i and 750Li sedan (F01; F02). It is the third ALPINA model officially distributed in the USA, after the 2007 BMW ALPINA B7 (E65), and the 2003 BMW ALPINA ROADSTER V8, which was based on the BMW Z8.

ALPINA Burkard Bovensiepen GmbH is an independent motor vehicle manufacturer located in the city of Buchloe, southwest of Munich, in the state of Bavaria, Germany.

Exterior differences to the 2011 750i:

- Front bumper with integrated spoiler
- Rear trunk lid spoiler
- Availability of the traditional ALPINA Blue metallic paint color
- ALPINA B7 badging
- Reduced ride height
- ALPINA Classic 20-spoke alloy wheels and Michelin Pilot Sport PS2 high-performance tires

Interior differences:

- Doorsill trims
- ALPINA logo in the instrument cluster, as well as inlaid in the interior wood trim panels
- ALPINA steering wheel with SWITCH-TRONIC transmission control buttons
- Exclusive ALPINA Myrtle Burl wood or Piano black lacquer trim available

UPDATE!

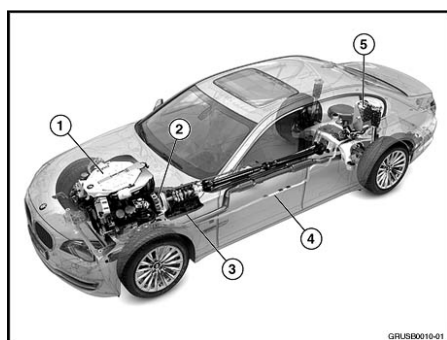
Refer to Attachment 3 for a comparison of selected specifications between the 2011 BMW ALPINA B7 and the 2011 750i.

ActiveHybrid 7

BMW introduces its first hybrid sedan, with engineering designation F04. The gasoline-powered N63 twin-turbocharged V8 engine from the 750i is supplemented by an electric motor located inside the transmission bellhousing, and a high-voltage (HV) lithium-ion compact-sized battery pack located in the forward left section of the trunk. The same electric motor starts the gasoline engine, eliminating a traditional starter. The electric motor also functions as a generator to provide current back to the HV battery during vehicle regenerative braking. Although the motor provides a supplemental power boost to the gasoline engine during certain acceleration situations, it cannot propel the vehicle by itself. This classifies the drivetrain as a “mild hybrid”.

The vehicle also incorporates a “stop/start” function, known as Auto Start/Stop. This increases fuel efficiency by stopping the engine when the vehicle comes to a stop, without any driver interaction.

The following illustration shows the general location of the main components for the drivetrain and HV systems. Some components are explained in further detail below.



1 N63 engine

2 Electric motor

3 Transmission

4 HV lines

5 HV battery pack

The HV battery pack consists of 35 lithium-ion cells each rated at 3.6 volts, for a total rating of 120 volts. The battery pack is cooled by the vehicle’s air conditioning system via a separate circuit.

The electric motor located at the transmission bellhousing generates boost of approximately 20 hp and peak torque of 155 lb-ft.

In total, the BMW ActiveHybrid 7 features a maximum system output of 455 hp and peak torque of 515 lb-ft.

Some design and equipment differences to the 2011 750i:

- Aerodynamically optimized 19” wheels
- “ActiveHybrid 7” badging on the trunk lid, C-pillars and door sills
- Electric/gasoline operating mode display in the lower part of the tachometer
- Hybrid category and energy flow diagrams in the CID
- Electric Power Steering
- Electric Air Conditioning (A/C) Compressor (EKK), allowing A/C operation even when the engine is turned off during Auto Stop/Start
- One 90Ah Activated Glass Mat (AGM; aka “gel” cell) 12V battery for on-board systems

The ActiveHybrid 7 features TeleService Report (TSR) as standard equipment. This is a new service which automatically transfers vehicle systems technical data on a regular basis to the BMW development and technical support areas. TSR is already activated at the Vehicle Distribution Centers (VDCs) prior to wholesale delivery.

HV system safety-related components:

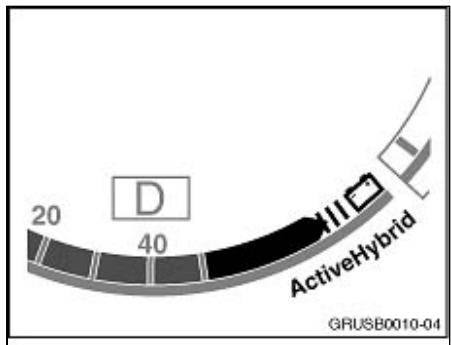
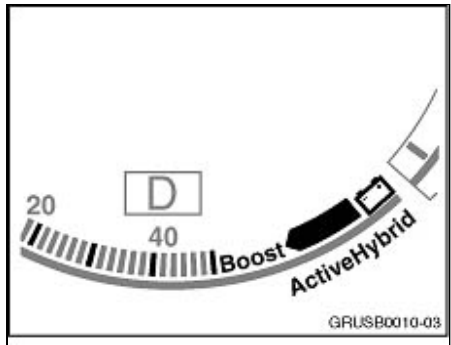
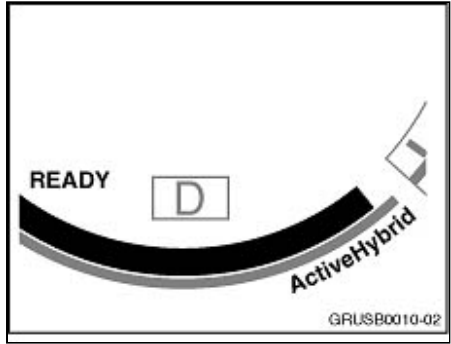
- HV cables have orange-colored jacketed insulation (uniform color used by all hybrid vehicle manufacturers).
- HV components have yellow-colored warning labels, shared by all hybrid vehicle manufacturers.
- Terminal ends on HV components have touch-proof recessed connectors.
- HV cables and many HV components do not utilize the body shell as a ground path, to reduce the risk of short-circuiting due to component damage.
- Short-circuit monitoring with automatic shut-down among the HV components (HV contact monitoring, aka “HV interlock”).
- Sensors in the airbag system detect an accident, disabling the HV system via the Battery Safety Terminal (BST).

Also refer to the section below, “General Precautions regarding the High-voltage System”.

Operating the ActiveHybrid 7 Drive System:

In contrast to a full hybrid such as the BMW ActiveHybrid X6 (refer to SI [B00 07 09](#)), the mild hybrid system on the ActiveHybrid 7 will always start the gasoline engine when first driving off. Therefore, selecting the “accessories” (aka “radio ready”) and “ignition on” positions have not changed, compared to other 7 Series. This also pertains to shutting off the engine and the ignition when leaving the vehicle.

The display at the bottom of the tachometer provides a status of the hybrid system, depending on system operating temperature.

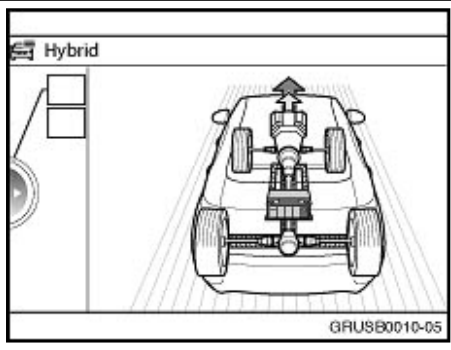
	Energy recovery in the form of regenerative braking.
	Hard acceleration will briefly utilize the electric motor for boost function.
	The Auto Start/Stop function can begin under the following conditions, whereby the display will show “READY”: • The engine has reached operating temperature. • The selector lever is in the “automatic” mode “D”. • The vehicle comes to a complete stop using the service brake. • No steering input during braking The engine is automatically switched off, yet the ignition remains on. As soon as the brake pedal is released, the engine starts automatically.

Note: Auto Stop/Start will not function if:

- The engine has not yet reached operating temperature.

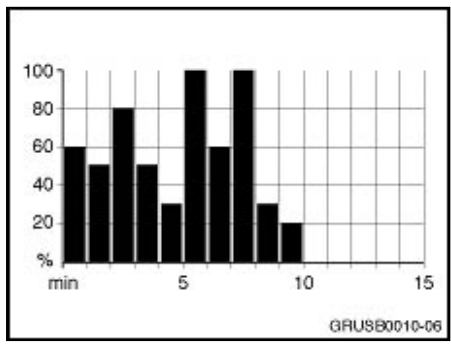
- The HV battery has a low state-of-charge.
- The vehicle's electrical system is under high load.
- The hood is not fully locked.
- The driver's door is open.
- The driver's safety belt is not buckled.
- The hybrid system has detected a fault.

The driver can select a menu in the CID to show:



The immediate energy flow, found by selecting “Vehicle info”, then “Hybrid”, and the upper icon “energy flow”.
At the bottom of the screen, one of three modes will be shown per the table below.

Mode	System	Tachometer	CID energy flow colors	CID phrase
Drive	Gasoline only	Engine speed	red	DRIVE
eBoost	Gasoline and electric	Engine speed	blue and red	eBOOST
Regenerative	Gasoline and electric	Engine speed or at “Ready”	blue and red	CHARGE



A history of the energy flow is available in the CID, found by selecting “Vehicle Info”, “Hybrid”, then “Hybrid Usage”. The display is updated every minute and shows the percentage of driving time during which the hybrid system provided either driving support or energy recovery during the last 15 minutes.

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- Only technicians who have successfully completed high-voltage and hybrid technology training classes may perform repairs or maintenance on this model.
- Diagnosis and repair operations listed in the 3G workshop equipment must be followed precisely.
- Do not repair or open HV components. It is only permitted to replace the component.
-  Refer to Attachment 4 to de-energize the HV system prior to repairs.

QC1

A new QC1 form has been developed for the 2011 models covered in this bulletin: SD92-401.

Changes compared to 2010:

- Delivery check, Salesperson: It is no longer necessary to install the Navigation Map DVD when the vehicle is equipped with this system, because this information is already contained in the CIC. However, the Navigation road map must be activated. Refer to SI [B65 38 09](#) and [B09 04 09](#).

ActiveHybrid 7:

- Delivery check, Salesperson: Set the CID to show the hybrid energy flow diagram.

All models with the option iPod/USB Adapter (6FL) - As of 9/10 vehicle production, the Y-cable is generally no longer included with the vehicle. This is because the iPod's original USB cable will now work directly. The only instances where the cable will still be included are if the vehicle is not ordered with either the optional Navigation system (609) or BMW Assist (639).

M3 coupe "Frozen Gray Metallic" - This limited-availability paint color has a matte finish which requires special care during the QC1 process.

- Remove the paint warning labels from the side windows.
- Hand-washing the vehicle is preferred over an automated car wash.
- Do not apply any polish or wax.
- For more precautions and information, refer to SI [B41 02 10](#).

UPDATE! Refer to Attachment 5 for an overview of the operating situations of the M3's Auto Stop/Start system when the system is active.

Service Maintenance

All models: With the 5/10 version of KSD, the engine air filter replacement interval has been lengthened to every 3rd engine oil service or approx. 45,000 miles (335d: approx. 39,000 miles). This change is retroactive to the start of the 2011 model year.

335d:

With the 5/10 version of KSD, the fuel filter replacement interval has been extended to every 3rd engine oil service, or approx. 39,000 miles. This change is retroactive to the start of the 2011 model year.

For the 335is (Coupe and Convertible), Z4 sDrive35is, and 740i/Li with the N54T engine:

- There is no 1200 Mile Service.
- Engine oil is the same as for the 335i (recommended: BMW High Performance 5W-30 Synthetic oil P/N 07 51 0 017 866)
- Spark plug replacement interval is 45,000 miles or at every 3rd engine oil service.
- Engine air filter replacement interval is at every 2nd engine oil change.

For the 135i (all versions), 335i (all versions), and 535i with the N55 engine:

- Spark plug replacement interval is 60,000 miles or at every 4th engine oil service.
- Engine air filter replacement interval is at every 2nd engine oil change.

BMW ALPINA B7:

- There is no 1200 Mile Service.
- Spark plug replacement interval is 30,000 miles or at every 2nd engine oil service.
- Engine air filter replacement interval is at every 2nd engine oil change.

Vehicle check: Check the expiration date on the M Mobility System sealant bottle. Change the bottle if needed.

ActiveHybrid 7:

Maintenance is comparable to a 750i.

All models with fully automatic transmissions: The transmission fluid replacement at 100,000 miles is no longer required. Transmissions now have a long-term fluid rating.

1 Series M Coupe:

- The rear axle differential is equipped with the Variable M differential lock, shared with the M3. For this reason it requires the same differential fluid changes as the M3, starting with the 1200 Mile Service.
- The manual transmission fluid **does not need to be changed at the 1,200 Mile Service (CBS service counter number 1)**.
- Manual transmission fluid replacement is required and connected to other specific engine oil services. For example, manual transmission fluid replacement is required when performing the “CBS service counter number 3 and 6” engine oil services. The chart below now references these changes.
- M Mobility system: Check the expiration date on the sealant bottle at each Vehicle Check.

1 Series M Coupe maintenance overview:

The following chart shows the service operations needed at the approximate mileage, linked to the CBS' internal counter. The counter increases by one whenever it is reset after a scheduled service has been performed.

Note: Although the A/C system ventilation microfilter does not have its own interval per CBS, it must be replaced at the same time as performing the bi-annual brake fluid change. The average driving distance for these 2 years roughly corresponds to each Vehicle Check.

Approx. CBS mileage	Required Service	CBS service counter	Operations to perform, and items to replace
1200	1200 Mile Service,	1	Engine Oil Service
	i.e, “running-in” check		Differential oil
16,200	Engine Oil Service	2	Engine Oil Service
			Engine air filter
31,200	Vehicle Check	3	Engine Oil Service
			Vehicle Check
			Differential oil
			Manual transmission fluid
			Replace spark plugs
46,200	Engine Oil Service	4	Engine Oil Service
			Engine air filter
61,200	Vehicle Check	5	Engine Oil Service
			Vehicle Check
76,200	Engine Oil Service	6	Engine Oil Service
			Engine air filter
			Differential oil
			Manual transmission fluid
			Replace spark plugs
91,200	Vehicle Check	7	Engine Oil Service
Continue as per 16,200 mi.			

Spark Plug Replacement Intervals

2011 Model	Engine	Interval (miles); coincides with every

		_ Engine Oil change
128i, 328i, Z4 sDrive30i, 528i	N52TU	60,000; 4th
135i, 335i, 535i Sedan;	N55	60,000; 4th
535i Gran Turismo		
1 Series M Coupe	N54T	31,200 3rd (first oil change is at 1200 miles)
Z4 sDrive35i	N54	45,000; 3rd
335is, Z4 sDrive35is, 740i	N54T	45,000; 3rd
M3	S65	37,500; 3rd (first oil change is at 1200 miles)
550i Sedan, 550i Gran Turismo, 750i,	N63	60,000; 4th
750i, ActiveHybrid 7		
760Li	N73	60,000; 4th
BMW ALPINA B7	N63B44M1	30,000; 2nd

For more information on other maintenance operations, refer to:

1 Series	B00 01 07 , B00 04 08 , B00 01 09
3 Series	B00 01 05 , B00 02 06 , B00 01 07 , B00 04 08 , B00 01 09 ,
5 Series Gran Turismo	B00 01 09
750i/Li	B00 04 08 , B00 01 09
760Li	B00 01 09
Z4 Roadster	B00 04 08 , B00 01 09

General Notes

2011 Service and Warranty Information booklets:

1 Series, 3 Series (incl. 335d) except M3	SD92-396
M3, 1 Series M Coupe	SD92-398
5 Series Sedan and Gran Turismo	SD92-396
7 Series incl. BMW ALPINA B7	SD92-400
Z4 Roadsters	SD92-396

PARTS INFORMATION

Under separate cover, one pack of the Quality Certification I form for the 2011 BMWs will be sent to each BMW center's Service Manager. Additional copies may be ordered as listed below:

Item	Description	Qty	Price
SD92-401	Quality Certification I form (2011 all models)	1 pack	\$4.75
		(= 25 forms)	

These items are available online at BMW TIS under Materials Ordering. Refer to bulletin [B10 02 02](#) for instructions on how to place an order.

WARRANTY INFORMATION

Reimbursement of the BMW Pre-Delivery Inspection (Quality Certification I) on 2011 vehicles will be via submission of a warranty claim when the work is completed. For more information, refer to [B00 01 07](#).

BMW Company Vehicles

Reimbursement for performing the QCI on BMW company vehicles (of any model year) must still be requested by submitting a claim through DCS, using the Spot Delivery codes as listed below:

Defect Code:	11 99 99 77 BV
Labor Operation:	00 00 012
Flat Rate Units:	Refer to KSD2

Note: BMW company vehicles delivered to field personnel may have already received a full QCI at the VDC 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, and the battery main-disconnect cable.
- 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 BMWNA, the repair order, time recording, and record keeping requirements outlined in the Warranty Policy and Procedures Manual must be strictly observed.

ATTACHMENTS

View PDF attachment [B000110 Attachment 1 1 M Coupe Technical Data](#).

View PDF attachment [B000110 Attachment 2 535i Sedan Technical Data](#).

View PDF attachment [B000110 Attachment 3 BMW ALPINA B7 Technical Data](#).

View PDF attachment [B000110 Attachment 4 F04 De Energize HV System](#).

View PDF attachment [B000110 Attachment 5 M3 Auto Stop Start](#).

View PDF attachment [SD92-401 04 2011](#).