

# BMW of North America, LLC

## 2003 Models (except X5) X5: use checklist SD92-224

### Service Maintenance Checklist

Only operations that pertain to this vehicle will be performed.

NOTE: Any other requested repairs not listed or covered by the applicable BMW Limited Warranty will be charged to the owner and invoiced separately.

Customer's Name								
Chassis Number	Indicate # Lights illuminated in Service Interval Indicator <table border="1"> <tr> <td>G</td><td>G</td><td>G</td><td>G</td><td>G</td><td>Y</td><td>R</td> </tr> </table>	G	G	G	G	G	Y	R
G	G	G	G	G	Y	R		
BMW center	Mileage (on Service Interval Ind.)							
Repair Order No.	Mileage (on odometer)							

State and federal statutes require a properly completed copy of this form to be retained in the BMW center's customer file.

Spare  
RR  
RF  
LR  
Tire Pressure (psi): LF

	Z4 2.5i, 3.0i Roadster	325i, 330i	M3	5 Series (excl. M5)	M5	Z8	BMW ALPINA ROADSTER V8	
TECHNICIAN'S SIGNATURE	E85	E46		E39		E52		
<b>BMW Oxygen Sensor Replacement</b> , required at intervals of 100,000 mi. (325i SULEV: 150,000 mi.)	●	●	●	●	●	●	●	
<b>BMW Spark Plug Replacement</b> , required at intervals of _____,000 mi.	100	100	60	100	60	60	60	
<b>BMW Automatic Transmission Service</b> ; change ATF at intervals of 100,000 mi.	●	●		●			●	
<b>1200 Mile Service</b>								
Read out diagnostic system.			●		●	●	●	
Change oil and oil filter while engine is at operating temperature. Use only Castrol TWS Motorsport SAE 10W-60 Synthetic oil, or Castrol Formula RS 10W-60 Synthetic oil, BMW p/n 07 51 0 009 420			●					
Change oil and oil filter while engine is at operating temperature. We recommend BMW High Performance 5W-30 Synthetic oil, p/n 07 51 0 017 866							●	
Replace transmission fluid.			●		●			
Replace differential oil.			●		●	●	●	
Check all warning/indicator lights, check control.			●		●	●	●	
Road test with check of brakes, suspension, steering, clutch/manual transmission.			●		●	●	●	
<b>BMW Engine Oil Service</b>								
Change oil and oil filter while engine is at operating temperature. We recommend BMW High Performance 5W-30 Synthetic oil, p/n 07 51 0 017 866	●	●		●	●	●	●	
Change oil and oil filter while engine is at operating temperature. Use only Castrol TWS Motorsport SAE 10W-60 Synthetic oil, or Castrol Formula RS 10W-60 Synthetic oil, BMW p/n 07 51 0 009 420			●					
Replace microfilters. <b>Note:</b> reduce replacement interval in dusty operating conditions.	●	●	●	●	●	●	●	
Check overall thickness of front and rear disc brake pads using special tool. Record results. If replacement is necessary*: Examine brake disc surfaces. Clean brake pad contact points in calipers. Grease wheel centering hubs. Check thickness of parking brake linings only when replacing rear pads. Record results.	●	●	●	●	●			
Remove and install front and rear disc brake pads, check overall thickness. Record results. Examine brake disc surfaces. Clean brake pad contact point in calipers. Grease wheel centering hubs.			●			●	●	
Check parking brake actuation. Adjust if necessary.	●	●	●	●	●	●	●	
Check convertible top mechanism tension cords for damage and routing.						●	●	
Reset Service Indicator. <b>Note:</b> Do not reset Service Indicator when additional oil changes (between the normal intervals) are requested by the customer.	●	●	●	●	●	●	●	
<b>BMW Inspection I: Undercarriage</b>								
Change oil and oil filter while engine is at operating temperature. We recommend BMW High Performance 5W-30 Synthetic oil, p/n 07 51 0 017 866	●	●		●	●	●	●	
Change oil and oil filter while engine is at operating temperature. Use only Castrol TWS Motorsport SAE 10W-60 Synthetic oil, or Castrol Formula RS 10W-60 Synthetic oil, BMW p/n 07 51 0 009 420			●					
Check transmission for leaks.	●	●	●	●	●	●	●	
Check rear axle for leaks.	●	●	●	●	●	●	●	
Half shafts: Check for leaks at flexible boots.	●	●	●	●	●	●	●	
Visually check fuel tank, lines and connections for leaks.	●	●	●	●	●	●	●	
Check condition, position, and mounting of exhaust system. Examine for leaks.	●	●	●	●	●	●	●	
Check power steering system for leaks. Check p/s fluid level; add fluid if necessary.		●	●	●	●	●	●	
Check overall thickness of front and rear disc brake pads using special tool. Record results. If replacement is necessary*: Examine brake disc surfaces. Clean brake pad contact points in calipers. Grease wheel centering hubs. Check thickness of parking brake linings only when replacing rear pads. Record results.	●	●	●	●	●			
Remove and install front and rear disc brake pads, check overall thickness. Record results. Examine brake disc surfaces. Clean brake pad contact points in calipers. Grease wheel centering hubs.			●			●	●	

BMW Inspection I (cont'd)							
	Z4 2.5i, 3.0i Roadster	325i, 330i	M3	5 Series (excl. M5)	M5	Z8	BMW ALPINA ROADSTER V8
	E85	E46		E39		E52	
Washer Fluid:	●	●	●	●	●	●	●
Check brake (and clutch) system connections and lines for leaks, damage, and incorrect positioning.	●	●	●	●	●	●	●
Check steering for absence of play, condition of suspension track rods, front axle joints, steering linkage and joint disc.	●	●	●	●	●	●	●
Check parking brake actuation. Adjust if necessary.	●	●	●	●	●	●	●
Check all tire pressures (including spare). Correct if necessary. Record results. Check condition of tires (outer surfaces [left/right]), tread wear and pattern; in case of uneven tread wear readjust wheels alignment if requested.* Note: If requested, rotate all four roads wheels as instructed and rebalance.*	●	●	●	●	●	●	●
Replace M-Mobility System sealant cartridge every 3 years.			●		●	●	●
Inspect entire body according to terms of rust perforation limited warranty (must be performed at least every two years).	●	●	●	●	●	●	●
<b>BMW Inspection I: Engine Compartment</b>							
Read out diagnostic system.	●	●	●	●	●	●	●
Check and adjust valves.			●				
Check engine cooling system/heater hose connections for leaks. Check coolant level and antifreeze protection level; add coolant if necessary. Note: Coolant must be replaced every ____ years (time interval begins from vehicle's production date).	lifetime	4	4	4	3	3	3
Check level of brake and clutch fluid in reservoir. Add fluid if required.	●	●	●			●	●
Replace brake fluid every 2 years (time interval begins from vehicle's production date).*	●	●	●	●	●	●	●
Check windshield washer fluid level and antifreeze protection. Fill up and/or correct if necessary. Record freeze point temperature.	●	●	●	●	●	●	●
Check air conditioner operation.	●	●	●	●	●	●	●
Replace microfilters. Note: reduce replacement interval in dusty operating conditions.	●	●	●	●	●	●	●
Reset Service Indicator.	●	●	●	●	●	●	●
<b>BMW Inspection I: Body/Electrical Equipment</b>							
Check battery state-of-charge, and charge if required.*	●	●	●	●	●	●	●
Check lighting system, i.e., headlights, foglights, parking, back-up, license plate, interior (including map reading lights), glove box, flashlight, illuminated make-up mirrors, luggage compartment lights.	●	●	●	●	●	●	●
Check instrument panel and dashboard illumination.	●	●	●	●	●	●	●
Check all warning/indicator lights, check control.	●	●	●	●	●	●	●
Check turn signals, hazard warning flashers, brake lights, horns, headlight dimmer/flasher switch.	●	●	●	●	●	●	●
Check wipers and washer system(s); wiper blades, washer jet positions.	●	●	●	●	●	●	●
Check condition and function of safety belts.	●	●	●	●	●	●	●
Recharge or replace batteries for remote controls in all vehicle master keys.	●	●	●	●	●	●	●
Check central locking/double lock.	●	●	●	●	●	●	●
Check operation of all latches.	●	●	●	●	●	●	●
Check heater/air conditioner blower fan, rear window defogger.	●	●	●	●	●	●	●
Check rear view mirrors.	●	●	●	●	●	●	●
Visually examine the SRS airbag units for torn covers, obvious damage or attachment of decals, decorations or accessories.	●	●	●	●	●	●	●
Activate automatic roll-over protection system (if equipped) via diagnostic link. Note: First remove hardtop/lower top.		●	●				
Check convertible top mechanism tension cords for damage and routing.						●	●
<b>Final Inspection</b>							
Road test with check of brakes, suspension, steering, clutch/manual transmission or automatic transmission.	●	●	●	●	●	●	●
<b>BMW Inspection II: Includes all items listed under Inspection I, and the following checks and maintenance items:</b>							
<b>Engine Compartment</b>							
Replace intake air cleaner element. Note: Reduce replacement interval in dusty operating conditions.	●	●	●	●	●	●	●
Replace spark plugs.			●		●	●	●
<b>Undercarriage</b>							
Check thickness of parking brake linings. Record values.						●	●
Replace transmission fluid.			●				
Replace differential oil.			●				

\*Invoice separately