

BMW M Roadster (S50)

2nd Inspection 2

Parts Needed

5.5 litres Mobil One 0W/40 (or [equivalent](#)¹)

Oil Filter (11 42 7 833 769)

6x Spark Plugs (12 12 9 069 048 / NGK PKR 7 A)

Air Filter (13 72 1 730 449)

¹ See Enclosures 5, 7, 8 & 11

Tyre and Wheels

			RIGHT		
			Last Service	Original	Final
REAR	Pads	Inner			
		Outer			
	Disc				
	Run-Out				
	Shoe	Front			
		Rear			
	Shoe ID				
	Tyre Pressure				
Tyre Tread	Outer				
	Middle				
	Inner				

			LEFT		
			Last Service	Original	Final
REAR	Pads	Inner			
		Outer			
	Disc				
	Run-Out				
	Shoe	Front			
		Rear			
	Shoe ID				
	Tyre Pressure				
Tyre Tread	Outer				
	Middle				
	Inner				

			RIGHT		
			Last Service	Original	Final
FRONT	Pads	Inner			
		Outer			
	Disc				
	Run-Out				
	Tyre Pressure				
	Tyre Tread	Outer			
Middle					
Inner					

			LEFT		
			Last Service	Original	Final
FRONT	Pads	Inner			
		Outer			
	Disc				
	Run-Out				
	Tyre Pressure				
	Tyre Tread	Outer			
Middle					
Inner					

Valve Clearance Test

Gap				
Cylinder	Exhaust		Inlet	
	0.33	0.28	0.23	0.18
6				
5				
4				
3				
2				
1				

Current Shim Size (mm)		
Cylinder	Exhaust	Inlet
6		
5		
4		
3		
2		
1		

BMW 2nd Inspection II

Chassis number:

Model:

Body/electrics

- Check the lights.
- Check the instrument and display lighting and the heater blower.
- Check the horn, headlight flasher and hazard warning flashers.
- Wipe-wash system: check wiper blades and washer jet settings.
- Seat belts: check condition of belts, function of reels, belt locks and belt catches.
- Locks: check condition and operation, oil or grease as necessary.
- Battery
 - Check acid level and top up with distilled water if necessary.
 - If necessary: recharge battery.¹
- Renew fluid bottle for M-Mobility system every three years.¹
- Body and underside of floor pan: check for corrosion and damage (not including body cavities).

Engine compartment

- Call up faults from memory.
- Renew the spark plugs.
- Check valve clearances and adjust if necessary.
- Coolant hoses: inspect for leaks, check coolant level and coolant concentration, and top up if necessary.
- Note: change the coolant after max. 2 years (filling quantity as required).¹
- Reset Service Indicator in accordance with manufacturer's directives.
- Windscreen washer and intensive cleaning system: check fluid levels and top up if necessary.
- Power steering: inspect for leaks.
- Brake and clutch hydraulics: check fluid level and top up if necessary.
- Brake fluid: renew according to Service Interval indicator display, but not later than after 2 years.¹
- Intake air silencer: renew air cleaner element (renew more frequently in very dusty conditions).

Running gear

- O Change engine oil and renew filter element. **(5,5 l)**
- O Front and rear brake pads: remove and install, check overall thickness, clean caliper apertures, renew pads if necessary. Brake discs: check surfaces and thickness. Cars with light-alloy wheels: grease centering spigot.
- O Parking brake: check lining thickness.
- O Check steering for freedom from play. Check condition of track rods and axle pivots, steering box, sleeves and joint disc.
- O Check clutch driving plate for wear.
- O Gearboxes/transmissions (all): inspect for leaks.
- O Fuel lines, hoses and tank: inspect for correct location, condition and leaks.
- O Exhaust system: check condition, location, mountings and freedom from leaks.
- O Half-shafts (check flexible gaiters for leaks).
- O Brake lines and unions: inspect for leaks, damage and incorrect positioning.
- O Parking brake: check lever travel and adjust according to manufacturer's directives if necessary.
- O Tyres
 - Check pressures and correct if necessary (including spare wheel). Check external condition (left/right), tread depth and tread wear pattern.
 - If wear is uneven, check and correct wheel alignment after obtaining customer's permission.¹

Final check

- O Check items affecting road safety.
 - brakes (bed down parking brake on cars with rear disc brakes)
 - steering or power steering
 - clutch
 - shock absorbers (visual examination)
 - Check telltale
 - Check Control

¹ invoiced as an additional item

^{1*} invoiced as an additional item unless standard equipment on car

² invoiced as an additional item (comply with national legislation)

³ Repair and adjusting work charged as a separate item

^{3*} Subsequent improvement work on body, repairs, replacement of parts and official vehicle test are charged as separate items