

BMW M Roadster (S50)

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)

1.5 litres Castrol SAF-XJ 75W/140

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 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 battery¹.
- Renew fluid bottle for M-Mobility system every three years¹.
- 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 years¹.
- 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 I)**
- 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 Gearboxes/transmissions (all): inspect for leaks.
- O Change oil in rear-axle final drive **(1,3 I)**
- 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 permission¹.

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