



GROUP 00

B 00 06 98

Woodcliff Lake, N.J.

July 1999

Maintenance and General Hints

Product Engineering

This Service Information bulletin supersedes S.I. 00 06 98 **dated September 1998** which should be removed and discarded from your S.I. binder.

SUBJECT: **New Vehicle Preparation and Maintenance Requirements**

MODEL: 1999 All Models
 1998 M3 Convertible

Situation: The 3 Series 4-door sedan has been completely redesigned for the 1999 model year. The new sedan carries the internal type designation E46. It replaces the previous generation E36 3 Series sedan, which was introduced in 1991 (1992 model year).

The 328i became available in 7/98, the 323i in 8/98. Please refer to TRI 00 76 98 for general information on these new models.

1999 3 Series coupes and convertibles will still be based on the E36. They will be available approx. 10/98.

There are several changes to the Z3 product line for 1999. The Z3 coupe 2.8 and M coupe are new models, based on the Z3 roadster 2.8 and M roadster, respectively. Please refer to TRI 00 77 98 for general information on these models.

The M52 B25 2.5 liter, 170hp engine introduced in the 1998 323is is now available in the Z3 roadster. This new model is designated Z3 roadster 2.3.

The Z3 is no longer offered with the 1.9 liter M44 engine.

The 5 Series product line has expanded to include sport wagon versions of the 528i and 540i. The 528iT is available with either a manual or an automatic transmission. The 540iT is available only with an automatic transmission.

1999 5 and 7 Series will be available approx. 10/98.

Quality Certification I (QCI):

A new Quality Certification I (QC I) checklist (item SD92-104) has been created for all 1999 models. It maintains the familiar 4-color no carbon required (NCR) format of the previous form, but incorporates some minor changes:

- Record/program Car Memory/Key Memory (CM/KM) features as per customer's preferences (refer to SI 09 03 98); specified in both the Salesperson and the Technician sections of the Delivery Check.

Note 1: CM/KM is currently available on E46 3 Series. This feature will also become available on 5 and 7 Series as of 9/98 production (1999 model year).

Note 2: CM/KM programming is not reimbursable under warranty, nor should the customer be charged.

- Checking function of power (telescoping) antenna no longer needed during road test (antennas are either integrated with the windows or are the fixed mast-type).
- Initializing windows, locks, sunroof no longer needed (display check).
- Reference to scheduling QCII (last valid on 1995 models) eliminated.

Please refer to the WARRANTY INFORMATION section of this bulletin for details on the new QCI processing for the 1999 models.

Use QCI checklist SD92-051 (vehicles produced as of September 1994) for the 1998 M3 convertible.

A new Service Maintenance Checklist (item SD92-103) has been developed for all 1999 models. It contains several changes compared to the 1998 checklist.

The Service Maintenance Checklist (dated 8/98) contains an error: For the BMW Engine Oil Service, it is NOT necessary to replace the microfilters on any E36 (318ti, 323is/ic, 328is/ic, M3). These models do not feature the extended service intervals, so that the microfilter replacement is first required at Inspection I. The Checklist has been corrected accordingly and reprinted (dated 4/99), and 1 pack (25 checklists) will be sent to each BMW center free-of-charge.

Note: the 1999 Service and Warranty booklet (item 92-106) for these models does contain the correct replacement interval for the microfilters.

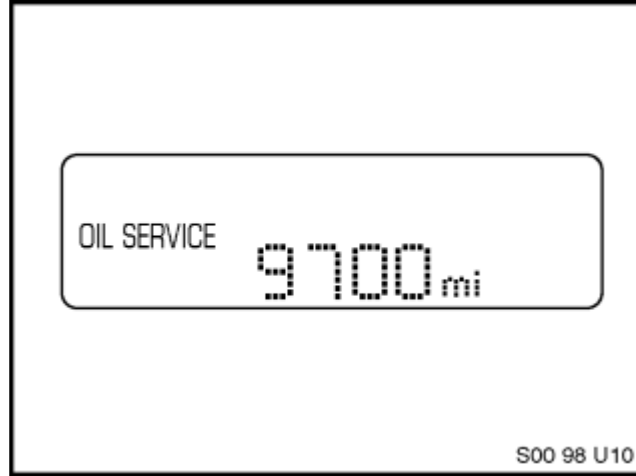
Copies of the QC I, and Service Maintenance checklists for 1999 models are included as attachments.

General:

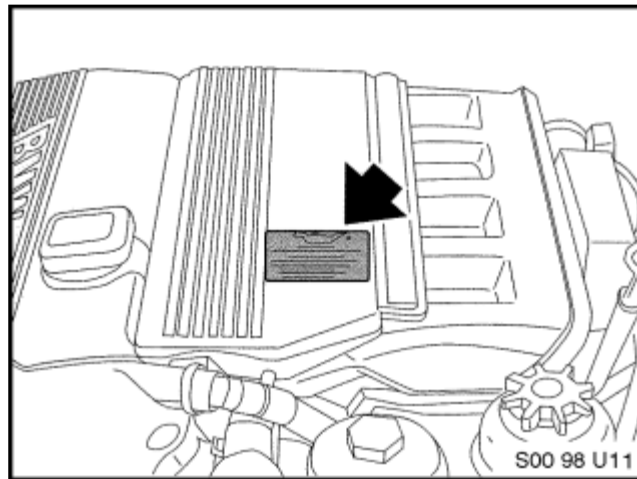
E46 3 Series:

Both the 323i and the 328i E46 receive the M52TU engine (2.5 liter for the 323i, 2.8 liter for the 328i; refer to SI 11 75 98). This engine meets Low Emissions Vehicle (LEV) specifications. The powerplant and the vehicle incorporate several features which result in some improvements to the Service and Maintenance requirements:

- The oil change interval has been increased to approx. 15,000 miles.
- A new generation of Service Interval Indicator (SII 4) displays the miles remaining until the next service is due, rather than by the familiar green/yellow/red LEDs used in previous Service Interval Indicators.



- High performance (formerly "long life") synthetic-based engine oil (refer to SI 11 08 98) for factory-fill and service use. A label ((arrow) part number 01 00 0 002 569; E46 shown, others similar) is applied to the engine compartment as a reminder. The 5W-40 BMW High Performance Synthetic Engine Oil can be ordered under p/n 07 51 0 002 545 (1 quart).



- Spark plug replacement interval is now 100,000 miles.
- Engine coolant change interval has been extended from 3 years to 4 years.

Z3 roadster 2.3 and 2.8, Z3 coupe 2.8, all 5 Series, all 7 Series:

These models are now built to meet LEV specifications. They also benefit from the following changes:

- The oil change interval has been increased to approx. 15,000 miles.
- BMW 5W-40 High Performance Synthetic Engine Oil for factory-fill and service use.
- Spark plug replacement interval is now 100,000 miles.
- Engine coolant change interval has been extended from 3 years to 4 years.

318ti, 323is/ic and 328is/ic (E36 3 Series):

- Spark plug replacement interval is now 100,000 miles.

- Engine coolant change interval has been extended from 3 years to 4 years.

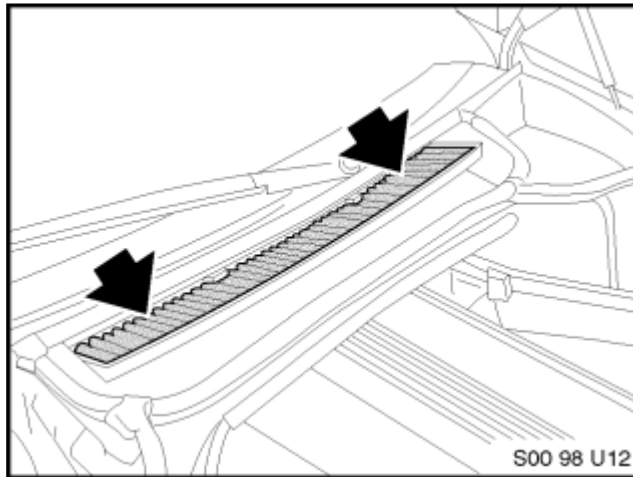
Service Maintenance:

Due to the longer oil change intervals on most models, some simple maintenance items previously specified in Inspection I have been included in the Engine Oil Service.

Engine Oil Service

All Models except E36 3 Series and Z3:

Replace the microfilter. The microfilter (arrow) on the E46 3 Series is located in the cowl area of the engine compartment, and is easily accessed after removing the quick-release cover panel.



All Models except 318ti, 323is/ic, 328is/ic, 750iL and Motorsport versions:

Check overall thickness of front and rear disc brake pads using special tool 341 260 (refer to SI 00 11 96). The rims do not need to be removed to check the brake pad thickness, as long as the vehicle is equipped with BMW-approved rims.

750iL:

Remove and install the front and rear disc brake pads, check the overall thickness. Examine the brake disc surfaces, and clean the brake pad contact point in the calipers.

All Models except 318ti, 323is/ic, 328is/ic and Motorsport versions:

Check parking brake actuation. Adjust if necessary. Parking brake cables can stretch beyond the adjustment range if this is not checked at each scheduled maintenance.

Inspection I

The E46 utilizes a sensor in the brake fluid reservoir to indicate low fluid level. It is no longer necessary to visually check the level of the fluid in the reservoir.

All models except 750iL and Motorsport versions:

Check overall thickness of front and rear disc brake pads using special tool 341 260 (refer to SI 00 11 96). The rims do not need to be removed to check the brake pad thickness, as long as the vehicle is equipped with BMW-approved rims.

All Models:

Due to changes in materials, it is no longer necessary to grease or oil the hinges or latches.

Inspection II (all except Motorsport versions)

Spark plugs no longer have to be replaced at Inspection II, as they now have a 100,000 mile rating.

Second Inspection II:

The E46 receives the self-adjusting clutch (SAC). It is no longer necessary to check the clutch disc for wear at every second Inspection II.

Service and Warranty Information booklet:

1999 323i and 328i (E46) use a new booklet, item SD92-105.

All other 1999 models are covered in a different booklet, item SD92-106.

**Parts
Information:**

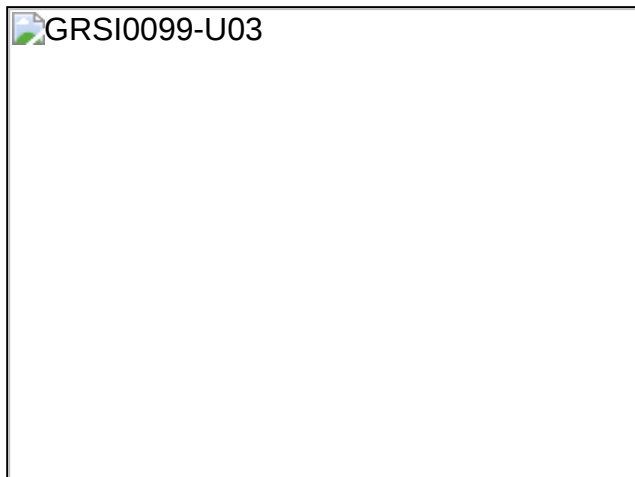
Additional copies of the checklists for 1999 models can be ordered from Product Engineering as listed below:

Item	Description	Qty	Price
SD92-104	Quality Certification I Checklists (1999 models)	1 pack (=25 forms)	\$4.00
SD92-103	1999 Service Maintenance Checklists	1 pack (=25 forms)	\$4.00

A pre-printed Material Order Form is enclosed.

**Warranty
Information:**

Quality Certification I (QC I)



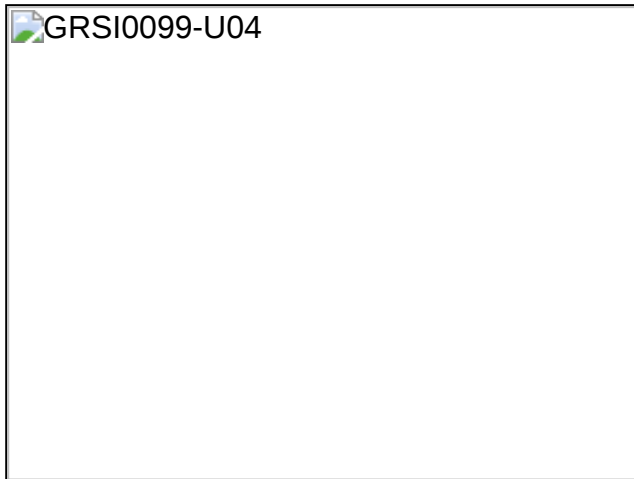
Starting with the 1999 Model Year, QCI payments will be automatically issued to

BMW centers upon reporting a 1999 or later model year vehicle as retailed, or placing the vehicle in service as a BMW center demonstrator or Service/Loaner vehicle.

The payments, processed via a miscellaneous billing, will be

based on the display and delivery check flat rates as published and each BMW center's warranty labor rate.

With this change, the QCI line item on the repair order should be charged internally to the New Car Sales Department.'



BMW Company Cars

Reimbursement for performing the QCI on BMW company cars (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 Flat Rate Manuals for flat rate times.

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.

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