



**Haynes**  
shows you how

**BMW 3-Series and Z4 (99-05) Includes 2006 325ci/330ci Coupe and Convertible models Haynes Online Manual.**

# 1 Introduction

## Engine compartment layout (2.5 liter model shown - others similar)

- 1 Oil filter cover
- 2 Power steering fluid reservoir
- 3 Coolant expansion tank
- 4 Air filter housing
- 5 Engine oil dipstick
- 6 Brake and clutch fluid reservoir
- 7 Engine electrical box
- 8 Cabin air filter cover
- 9 Windshield washer fluid reservoir
- 10 Engine oil filler cap



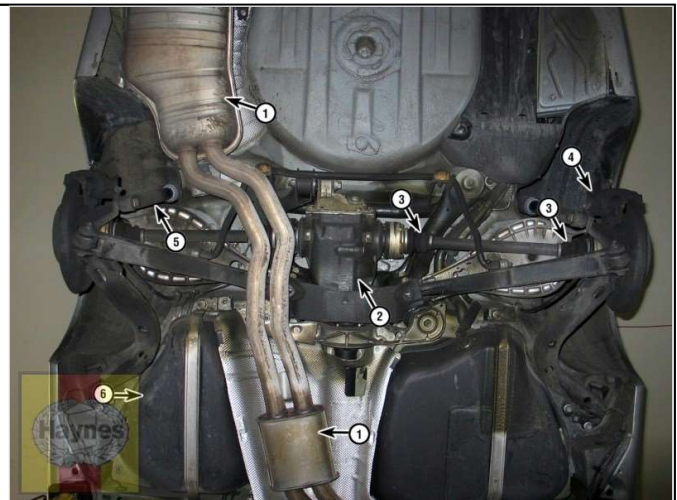
### Engine compartment underside components (2.5 liter model shown - others similar)

- 1 Oil drain plug
- 2 Steering rack
- 3 Lower control arm
- 4 Coolant drain plug
- 5 Steering gear boot
- 6 Front brake caliper
- 7 Exhaust pipes



### Rear underside components

- 1 Muffler
- 2 Differential
- 3 CV joint boot
- 4 Rear brake caliper
- 5 Shock absorber
- 6 Fuel tank



1 This Chapter is designed to help the home mechanic maintain his/her vehicle for safety, economy, long life and peak performance.

2 The Chapter contains a master maintenance schedule, followed by Sections dealing specifically with each task in the schedule. Visual checks, adjustments, component replacement and other helpful items are included. Refer to the accompanying illustrations of the engine compartment and the underside of the vehicle for the locations of the various components.

3 Servicing your vehicle in accordance with the service indicator display and the following Sections will provide a planned maintenance program, which should result in a long and reliable service life. This is a comprehensive plan, so maintaining some items but not others at the specified service intervals, will not produce the same results.

**4** As you service your vehicle, you will discover that many of the procedures can - and should - be grouped together, because of the particular procedure being performed, or because of the proximity of two otherwise-unrelated components to one another. For example, if the vehicle is raised for any reason, the exhaust can be inspected at the same time as the suspension and steering components.

**5** The first step in this maintenance program is to prepare yourself before the actual work begins. Read through all the Sections relevant to the work to be carried out, then make a list and gather all the parts and tools required. If a problem is encountered, seek advice from a parts specialist, or a dealer service department.

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