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

## 10 Instrument cluster components - removal and installation

Through its connections, via “bus” networks with most of the systems and sensors within the vehicle, the instrument cluster is the control and information center for the BMW 3-Series models. The “K-bus” is connected to the supplementary restraint system, exterior and interior lights, rain sensor, heating/air conditioning, and the central body electrical system. The “CAN-bus” (Controlled Area Network) is connected to the engine management, transmission management, and the ABS/traction control/dynamic stability control systems. The “D-bus” is connected to the diagnostic link connector and EOBD (European On-Board Diagnostics) connector.

The speedometer displays the vehicle’s road speed from information supplied by the ABS ECM, generated from the left rear wheel speed sensor.

At the time of writing, no individual components are available for the instrument cluster and therefore the cluster must be treated as a sealed unit. If there is a fault with one of the instruments, remove the cluster as described in [Section 9](#) and take it to your BMW dealer for testing. They have access to a special diagnostic tester which will be able to locate the fault and will then be able to advise you on the best course of action.

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