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explanations step by step procedures and accurate specifications Whether you re a professional or a do it yourself BMW owner this manual helps you understand care for and repair your 4 Series The do it yourself BMW owner will find this manual indispensable as a source of detailed maintenance and repair information Even if you have no intention of working on your vehicle you will find that reading and owning this manual makes it possible to discuss repairs more intelligently with a professional technician Features Maintenance procedures from changing the cabin microfilter to replacing and registering a new battery This manual tells you what to do and how and when to do it Front to rear fluid and lubricant service including xDrive transfer case fluid and ATF Cylinder head cover gasket and crankshaft seal replacement Cooling system thermostat and radiator service Gasoline fuel and ignition system diagrams and explanations for turbo valvetronic direct injection TVDI engines Service and repair information on BMW EfficientDynamics technology such as Valvetronic xDrive TwinPower turbo and DSC dynamic stability control Twin scroll gasoline turbocharger replacement for 4 and 6 cylinder engines Step by step variable camshaft timing VANOS service Suspension repairs including wheel bearing replacement Brakes steering and ABS troubleshooting and repair Heating and air conditioning repair including A C component replacement Body and lid repairs and adjustments including Gran Coupe tailgate and rear doors Retractable hardtop service including electrical mechanical and hydraulic component operation locations and replacement Electrical system service with an easy to use illustrated component locator section Comprehensive wiring schematics including fuses and grounds BMW OBD II diagnostic trouble codes SAE defined OBD II P codes as well as basic scan tool operation BMW factory tolerances wear limits adjustments and tightening torques Engines N20 engine 428i including xDrive N26 SULEV engine 428i including xDrive N55 engine 435i including xDrive Manual transmissions GS6 17BG 4 cylinder models GS6 45BZ 6 cylinder models RWD GS6X 45BZ 6 cylinder models with xDrive Automatic transmissions ZF GA8HP45Z

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