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# BMW 3- & 5-Series Service and Repair Manual

A K Legg LMC MBE and Larry Warren

(2005, 2011, 2014)

## Models covered

### 3-Series (E36)

216i, 218i, 219i, 220i, 221i, 222i, 223i, 224i, 225i, 226i, 227i, 228i, 229i, 230i, 231i, 232i, 233i, 234i, 235i, 236i, 237i, 238i, 239i, 240i, 241i, 242i, 243i, 244i, 245i, 246i, 247i, 248i, 249i, 250i, 251i, 252i, 253i, 254i, 255i, 256i, 257i, 258i, 259i, 260i, 261i, 262i, 263i, 264i, 265i, 266i, 267i, 268i, 269i, 270i, 271i, 272i, 273i, 274i, 275i, 276i, 277i, 278i, 279i, 280i, 281i, 282i, 283i, 284i, 285i, 286i, 287i, 288i, 289i, 290i, 291i, 292i, 293i, 294i, 295i, 296i, 297i, 298i, 299i, 300i, 301i, 302i, 303i, 304i, 305i, 306i, 307i, 308i, 309i, 310i, 311i, 312i, 313i, 314i, 315i, 316i, 317i, 318i, 319i, 320i, 321i, 322i, 323i, 324i, 325i, 326i, 327i, 328i, 329i, 330i, 331i, 332i, 333i, 334i, 335i, 336i, 337i, 338i, 339i, 340i, 341i, 342i, 343i, 344i, 345i, 346i, 347i, 348i, 349i, 350i, 351i, 352i, 353i, 354i, 355i, 356i, 357i, 358i, 359i, 360i, 361i, 362i, 363i, 364i, 365i, 366i, 367i, 368i, 369i, 370i, 371i, 372i, 373i, 374i, 375i, 376i, 377i, 378i, 379i, 380i, 381i, 382i, 383i, 384i, 385i, 386i, 387i, 388i, 389i, 390i, 391i, 392i, 393i, 394i, 395i, 396i, 397i, 398i, 399i, 400i, 401i, 402i, 403i, 404i, 405i, 406i, 407i, 408i, 409i, 410i, 411i, 412i, 413i, 414i, 415i, 416i, 417i, 418i, 419i, 420i, 421i, 422i, 423i, 424i, 425i, 426i, 427i, 428i, 429i, 430i, 431i, 432i, 433i, 434i, 435i, 436i, 437i, 438i, 439i, 440i, 441i, 442i, 443i, 444i, 445i, 446i, 447i, 448i, 449i, 450i, 451i, 452i, 453i, 454i, 455i, 456i, 457i, 458i, 459i, 460i, 461i, 462i, 463i, 464i, 465i, 466i, 467i, 468i, 469i, 470i, 471i, 472i, 473i, 474i, 475i, 476i, 477i, 478i, 479i, 480i, 481i, 482i, 483i, 484i, 485i, 486i, 487i, 488i, 489i, 490i, 491i, 492i, 493i, 494i, 495i, 496i, 497i, 498i, 499i, 500i, 501i, 502i, 503i, 504i, 505i, 506i, 507i, 508i, 509i, 510i, 511i, 512i, 513i, 514i, 515i, 516i, 517i, 518i, 519i, 520i, 521i, 522i, 523i, 524i, 525i, 526i, 527i, 528i, 529i, 530i, 531i, 532i, 533i, 534i, 535i, 536i, 537i, 538i, 539i, 540i, 541i, 542i, 543i, 544i, 545i, 546i, 547i, 548i, 549i, 550i, 551i, 552i, 553i, 554i, 555i, 556i, 557i, 558i, 559i, 560i, 561i, 562i, 563i, 564i, 565i, 566i, 567i, 568i, 569i, 570i, 571i, 572i, 573i, 574i, 575i, 576i, 577i, 578i, 579i, 580i, 581i, 582i, 583i, 584i, 585i, 586i, 587i, 588i, 589i, 590i, 591i, 592i, 593i, 594i, 595i, 596i, 597i, 598i, 599i, 600i, 601i, 602i, 603i, 604i, 605i, 606i, 607i, 608i, 609i, 610i, 611i, 612i, 613i, 614i, 615i, 616i, 617i, 618i, 619i, 620i, 621i, 622i, 623i, 624i, 625i, 626i, 627i, 628i, 629i, 630i, 631i, 632i, 633i, 634i, 635i, 636i, 637i, 638i, 639i, 640i, 641i, 642i, 643i, 644i, 645i, 646i, 647i, 648i, 649i, 650i, 651i, 652i, 653i, 654i, 655i, 656i, 657i, 658i, 659i, 660i, 661i, 662i, 663i, 664i, 665i, 666i, 667i, 668i, 669i, 670i, 671i, 672i, 673i, 674i, 675i, 676i, 677i, 678i, 679i, 680i, 681i, 682i, 683i, 684i, 685i, 686i, 687i, 688i, 689i, 690i, 691i, 692i, 693i, 694i, 695i, 696i, 697i, 698i, 699i, 700i, 701i, 702i, 703i, 704i, 705i, 706i, 707i, 708i, 709i, 710i, 711i, 712i, 713i, 714i, 715i, 716i, 717i, 718i, 719i, 720i, 721i, 722i, 723i, 724i, 725i, 726i, 727i, 728i, 729i, 730i, 731i, 732i, 733i, 734i, 735i, 736i, 737i, 738i, 739i, 740i, 741i, 742i, 743i, 744i, 745i, 746i, 747i, 748i, 749i, 750i, 751i, 752i, 753i, 754i, 755i, 756i, 757i, 758i, 759i, 760i, 761i, 762i, 763i, 764i, 765i, 766i, 767i, 768i, 769i, 770i, 771i, 772i, 773i, 774i, 775i, 776i, 777i, 778i, 779i, 780i, 781i, 782i, 783i, 784i, 785i, 786i, 787i, 788i, 789i, 790i, 791i, 792i, 793i, 794i, 795i, 796i, 797i, 798i, 799i, 800i, 801i, 802i, 803i, 804i, 805i, 806i, 807i, 808i, 809i, 810i, 811i, 812i, 813i, 814i, 815i, 816i, 817i, 818i, 819i, 820i, 821i, 822i, 823i, 824i, 825i, 826i, 827i, 828i, 829i, 830i, 831i, 832i, 833i, 834i, 835i, 836i, 837i, 838i, 839i, 840i, 841i, 842i, 843i, 844i, 845i, 846i, 847i, 848i, 849i, 850i, 851i, 852i, 853i, 854i, 855i, 856i, 857i, 858i, 859i, 860i, 861i, 862i, 863i, 864i, 865i, 866i, 867i, 868i, 869i, 870i, 871i, 872i, 873i, 874i, 875i, 876i, 877i, 878i, 879i, 880i, 881i, 882i, 883i, 884i, 885i, 886i, 887i, 888i, 889i, 890i, 891i, 892i, 893i, 894i, 895i, 896i, 897i, 898i, 899i, 900i, 901i, 902i, 903i, 904i, 905i, 906i, 907i, 908i, 909i, 910i, 911i, 912i, 913i, 914i, 915i, 916i, 917i, 918i, 919i, 920i, 921i, 922i, 923i, 924i, 925i, 926i, 927i, 928i, 929i, 930i, 931i, 932i, 933i, 934i, 935i, 936i, 937i, 938i, 939i, 940i, 941i, 942i, 943i, 944i, 945i, 946i, 947i, 948i, 949i, 950i, 951i, 952i, 953i, 954i, 955i, 956i, 957i, 958i, 959i, 960i, 961i, 962i, 963i, 964i, 965i, 966i, 967i, 968i, 969i, 970i, 971i, 972i, 973i, 974i, 975i, 976i, 977i, 978i, 979i, 980i, 981i, 982i, 983i, 984i, 985i, 986i, 987i, 988i, 989i, 990i, 991i, 992i, 993i, 994i, 995i, 996i, 997i, 998i, 999i, 1000i

### 5-Series (E28)

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### 5-Series (E28)

518i, 520i, 524i, 528i, 530i, 535i, 540i, 545i, 550i, 555i, 560i, 565i, 570i, 575i, 580i, 585i, 590i, 595i, 600i, 605i, 610i, 615i, 620i, 625i, 630i, 635i, 640i, 645i, 650i, 655i, 660i, 665i, 670i, 675i, 680i, 685i, 690i, 695i, 700i, 705i, 710i, 715i, 720i, 725i, 730i, 735i, 740i, 745i, 750i, 755i, 760i, 765i, 770i, 775i, 780i, 785i, 790i, 795i, 800i, 805i, 810i, 815i, 820i, 825i, 830i, 835i, 840i, 845i, 850i, 855i, 860i, 865i, 870i, 875i, 880i, 885i, 890i, 895i, 900i, 905i, 910i, 915i, 920i, 925i, 930i, 935i, 940i, 945i, 950i, 955i, 960i, 965i, 970i, 975i, 980i, 985i, 990i, 995i, 1000i

### Engines covered

1990 cc, 1995 cc, 1998 cc, 1999 cc, 2000 cc, 2001 cc, 2002 cc, 2003 cc, 2004 cc, 2005 cc, 2006 cc, 2007 cc, 2008 cc, 2009 cc, 2010 cc, 2011 cc, 2012 cc, 2013 cc, 2014 cc, 2015 cc, 2016 cc, 2017 cc, 2018 cc, 2019 cc, 2020 cc, 2021 cc, 2022 cc, 2023 cc, 2024 cc, 2025 cc, 2026 cc, 2027 cc, 2028 cc, 2029 cc, 2030 cc, 2031 cc, 2032 cc, 2033 cc, 2034 cc, 2035 cc, 2036 cc, 2037 cc, 2038 cc, 2039 cc, 2040 cc, 2041 cc, 2042 cc, 2043 cc, 2044 cc, 2045 cc, 2046 cc, 2047 cc, 2048 cc, 2049 cc, 2050 cc, 2051 cc, 2052 cc, 2053 cc, 2054 cc, 2055 cc, 2056 cc, 2057 cc, 2058 cc, 2059 cc, 2060 cc, 2061 cc, 2062 cc, 2063 cc, 2064 cc, 2065 cc, 2066 cc, 2067 cc, 2068 cc, 2069 cc, 2070 cc, 2071 cc, 2072 cc, 2073 cc, 2074 cc, 2075 cc, 2076 cc, 2077 cc, 2078 cc, 2079 cc, 2080 cc, 2081 cc, 2082 cc, 2083 cc, 2084 cc, 2085 cc, 2086 cc, 2087 cc, 2088 cc, 2089 cc, 2090 cc, 2091 cc, 2092 cc, 2093 cc, 2094 cc, 2095 cc, 2096 cc, 2097 cc, 2098 cc, 2099 cc, 2100 cc, 2101 cc, 2102 cc, 2103 cc, 2104 cc, 2105 cc, 2106 cc, 2107 cc, 2108 cc, 2109 cc, 2110 cc, 2111 cc, 2112 cc, 2113 cc, 2114 cc, 2115 cc, 2116 cc, 2117 cc, 2118 cc, 2119 cc, 2120 cc, 2121 cc, 2122 cc, 2123 cc, 2124 cc, 2125 cc, 2126 cc, 2127 cc, 2128 cc, 2129 cc, 2130 cc, 2131 cc, 2132 cc, 2133 cc, 2134 cc, 2135 cc, 2136 cc, 2137 cc, 2138 cc, 2139 cc, 2140 cc, 2141 cc, 2142 cc, 2143 cc, 2144 cc, 2145 cc, 2146 cc, 2147 cc, 2148 cc, 2149 cc, 2150 cc, 2151 cc, 2152 cc, 2153 cc, 2154 cc, 2155 cc, 2156 cc, 2157 cc, 2158 cc, 2159 cc, 2160 cc, 2161 cc, 2162 cc, 2163 cc, 2164 cc, 2165 cc, 2166 cc, 2167 cc, 2168 cc, 2169 cc, 2170 cc, 2171 cc, 2172 cc, 2173 cc, 2174 cc, 2175 cc, 2176 cc, 2177 cc, 2178 cc, 2179 cc, 2180 cc, 2181 cc, 2182 cc, 2183 cc, 2184 cc, 2185 cc, 2186 cc, 2187 cc, 2188 cc, 2189 cc, 2190 cc, 2191 cc, 2192 cc, 2193 cc, 2194 cc, 2195 cc, 2196 cc, 2197 cc, 2198 cc, 2199 cc, 2200 cc, 2201 cc, 2202 cc, 2203 cc, 2204 cc, 2205 cc, 2206 cc, 2207 cc, 2208 cc, 2209 cc, 2210 cc, 2211 cc, 2212 cc, 2213 cc, 2214 cc, 2215 cc, 2216 cc, 2217 cc, 2218 cc, 2219 cc, 2220 cc, 2221 cc, 2222 cc, 2223 cc, 2224 cc, 2225 cc, 2226 cc, 2227 cc, 2228 cc, 2229 cc, 2230 cc, 2231 cc, 2232 cc, 2233 cc, 2234 cc, 2235 cc, 2236 cc, 2237 cc, 2238 cc, 2239 cc, 2240 cc, 2241 cc, 2242 cc, 2243 cc, 2244 cc, 2245 cc, 2246 cc, 2247 cc, 2248 cc, 2249 cc, 2250 cc, 2251 cc, 2252 cc, 2253 cc, 2254 cc, 2255 cc, 2256 cc, 2257 cc, 2258 cc, 2259 cc, 2260 cc, 2261 cc, 2262 cc, 2263 cc, 2264 cc, 2265 cc, 2266 cc, 2267 cc, 2268 cc, 2269 cc, 2270 cc, 2271 cc, 2272 cc, 2273 cc, 2274 cc, 2275 cc, 2276 cc, 2277 cc, 2278 cc, 2279 cc, 2280 cc, 2281 cc, 2282 cc, 2283 cc, 2284 cc, 2285 cc, 2286 cc, 2287 cc, 2288 cc, 2289 cc, 2290 cc, 2291 cc, 2292 cc, 2293 cc, 2294 cc, 2295 cc, 2296 cc, 2297 cc, 2298 cc, 2299 cc, 2300 cc, 2301 cc, 2302 cc, 2303 cc, 2304 cc, 2305 cc, 2306 cc, 2307 cc, 2308 cc, 2309 cc, 2310 cc, 2311 cc, 2312 cc, 2313 cc, 2314 cc, 2315 cc, 2316 cc, 2317 cc, 2318 cc, 2319 cc, 2320 cc, 2321 cc, 2322 cc, 2323 cc, 2324 cc, 2325 cc, 2326 cc, 2327 cc, 2328 cc, 2329 cc, 2330 cc, 2331 cc, 2332 cc, 2333 cc, 2334 cc, 2335 cc, 2336 cc, 2337 cc, 2338 cc, 2339 cc, 2340 cc, 2341 cc, 2342 cc, 2343 cc, 2344 cc, 2345 cc, 2346 cc, 2347 cc, 2348 cc, 2349 cc, 2350 cc, 2351 cc, 2352 cc, 2353 cc, 2354 cc, 2355 cc, 2356 cc, 2357 cc, 2358 cc, 2359 cc, 2360 cc, 2361 cc, 2362 cc, 2363 cc, 2364 cc, 2365 cc, 2366 cc, 2367 cc, 2368 cc, 2369 cc, 2370 cc, 2371 cc, 2372 cc, 2373 cc, 2374 cc, 2375 cc, 2376 cc, 2377 cc, 2378 cc, 2379 cc, 2380 cc, 2381 cc, 2382 cc, 2383 cc, 2384 cc, 2385 cc, 2386 cc, 2387 cc, 2388 cc, 2389 cc, 2390 cc, 2391 cc, 2392 cc, 2393 cc, 2394 cc, 2395 cc, 2396 cc, 2397 cc, 2398 cc, 2399 cc, 2400 cc, 2401 cc, 2402 cc, 2403 cc, 2404 cc, 2405 cc, 2406 cc, 2407 cc, 2408 cc, 2409 cc, 2410 cc, 2411 cc, 2412 cc, 2413 cc, 2414 cc, 2415 cc, 2416 cc, 2417 cc, 2418 cc, 2419 cc, 2420 cc, 2421 cc, 2422 cc, 2423 cc, 2424 cc, 2425 cc, 2426 cc, 2427 cc, 2428 cc, 2429 cc, 2430 cc, 2431 cc, 2432 cc, 2433 cc, 2434 cc, 2435 cc, 2436 cc, 2437 cc, 2438 cc, 2439 cc, 2440 cc, 2441 cc, 2442 cc, 2443 cc, 2444 cc, 2445 cc, 2446 cc, 2447 cc, 2448 cc, 2449 cc, 2450 cc, 2451 cc, 2452 cc, 2453 cc, 2454 cc, 2455 cc, 2456 cc, 2457 cc, 2458 cc, 2459 cc, 2460 cc, 2461 cc, 2462 cc, 2463 cc, 2464 cc, 2465 cc, 2466 cc, 2467 cc, 2468 cc, 2469 cc, 2470 cc, 2471 cc, 2472 cc, 2473 cc, 2474 cc, 2475 cc, 2476 cc, 2477 cc, 2478 cc, 2479 cc, 2480 cc, 2481 cc, 2482 cc, 2483 cc, 2484 cc, 2485 cc, 2486 cc, 2487 cc, 2488 cc, 2489 cc, 2490 cc, 2491 cc, 2492 cc, 2493 cc, 2494 cc, 2495 cc, 2496 cc, 2497 cc, 2498 cc, 2499 cc, 2500 cc, 2501 cc, 2502 cc, 2503 cc, 2504 cc, 2505 cc, 2506 cc, 2507 cc, 2508

# Bmw And Series Service And Repair Manual

**Robert Rooney, John Harold Haynes**



## **Bmw And Series Service And Repair Manual:**

BMW 3- & 5-Series Service and Repair Manual ,2013      *BMW 3- & 5-series Service and Repair Manual* Andrew K. Legg,Larry Warren,1998 BMW 3 Saloon Touring Saloon 81 88 up to F 5 Series E34 518i 520i 525i 530i 535i Saloon Touring 88 91 F to J Does NOT cover models with DOHC V8 or Diesel engines or 4x4 For other 3 5 series models see manuals no 0276 0632 0815 1560 or 3210 Petrol 1 6 litre 1596cc 1 8 litre 1766 1795cc 2 0 litre 1990cc 2 5 litre 2494cc 2 8 litre 2788cc 3 0 litre 2986cc 3 5 litre 3430cc SOHC      BMW 3-series Service and Repair Manual Mark Coombs,Steve Rendle,1996

BMW 5 Series Diesel (03-09) 52 to 10 Martynn Randall,2011 BMW 5 Series Saloon E60 and Touring E61 with 4 6 cylinder turbo diesel engines 520d 525d 530d 2 0 litre 1995cc 2 5 litre 2497cc 3 0 litre 2993cc turbo diesel Does NOT cover petrol models 535d twin turbo diesel models or models with xDrive transmission Does NOT cover new 5 Series F10 F11 range introduced during 2010      **B. M. W.3 Series Service and Repair Manual** Peter G. Strasman,1995      **Service and Repair Manual for BMW 1 Series** Martynn Randall,2011 Hatchback and Coupe models with 4 cylinder petrol and diesel engines 1 6 litre 1596cc and 2 0 litre 1995cc petrol engines 2 0 litre 1995cc diesel engine Does not cover 2 5 or 3 0 litre engines or features specific to Convertible      **Service and Repair Manual for BMW 3-series** Mark Coombs,Steve Rendle,2003      Service and Repair Manual for BMW 3- & 5-Series A. K. Legg,2013      BMW 5-Series Diesel Service and Repair Manual Haynes Publishing,2015-04      **BMW 4 Series (F32, F33, F36) Service Manual** Robert Bentley,2017-01-11 The BMW 4 Series Service Manual 2014 2016 contains in depth maintenance service and repair information for the BMW 4 Series from 2014 to 2016 The aim throughout has been simplicity and clarity with practical 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 **Owners Workshop Manual for BMW 3-series** Martynn Randall,2015 **BMW 3 Series** Martynn Randall,2011 With a Haynes manual you can do it yourself from simple maintenance to basic repairs Haynes writes every book based on a complete teardown of the vehicle We learn the best ways to do a job and that makes it quicker easier and cheaper for you Our books have clear instructions and hundreds of photographs that show each step Whether you re a beginner or a pro you can save big with Haynes Step by step procedures Easy to follow photos Complete troubleshooting section Valuable short cuts Color spark plug diagnosis Complete coverage for all models of your Nissan Sentra from 2007 through 2012 Routine Maintenance Tune up procedures Engine repair Cooling and heating Air Conditioning Fuel and exhaust Emissions control Ignition Brakes Suspension and steering Electrical systems Wiring diagrams Service and Repair Manual for BMW 3-series Martynn Randall,2003 316i 318i 320i 323i 325i 328i 330i E46 models Saloon Coupe Touring Does NOT cover Compact Convertible or M3 Petrol 4 cyl engines 1 8 litre 1796cc 1 9 litre 1895cc 2 0 litre 1995cc inc Valvetronic engines Does NOT cover 1 6 litre 1596cc 4 cyl engine 6 cyl engines 2 2 litre 2171cc 2 5 litre 2494cc 2 8 litre 2793cc 3 0 litre 2979cc **BMW 5 Series (E39) Service Manual** Bentley Publishers,2003 The ultimate service manuals Bentley manuals are the only comprehensive single source of service information and specifications available for BMW cars These manuals provide the highest level of clarity and completeness for all service and repair procedures Enthusiasts do it yourselfers and professional technicians will appreciate the quality of photographs and illustrations theory of operation and accurate step by step instructions If you are looking for better understanding of your BMW look no further than Bentley Even if you do not repair your own vehicle knowledge of its internal workings will help you when discussing repairs and maintenance with your professional automotive technician This Bentley Manual is the only comprehensive single source of service information and specifications available specifically for BMW 5 Series from 1997 to 2002 The aim throughout this manual has been simplicity clarity and completeness with practical explanations step by step procedures and accurate specifications Whether you are a professional or a do it yourself BMW owner this manual will help you understand care for and repair your E39 5 Series Though the do it yourself BMW owner will find this manual indispensable as a source of detailed maintenance and repair information the BMW owner who has no intention of working on his or her car will find that reading and owning this manual will make it possible to discuss repairs more intelligently with a professional technician BMW 7 Series Service Manual ,1999 BMW repair manuals The ultimate

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