

# Bmw e46 manual 2002

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**What engine is in a 2002 BMW E46?** In September 2001, the facelift versions of the sedan and Touring were released for the 2002 model year. 325i (M54 engine) replaced 323i (M52TÜ engine).

**Is the BMW E46 manual?** Two transmission options were available, the 6 speed manual, which is covered in this market, or the 6 Speed Sequential Manual Gearbox (SMG). Production of 6 Speed equipped E46 M3 coupes continued until 2006, when the next generation BMW E90 M3 debuted.

**How much oil does a BMW E46 manual gearbox take?** The gearbox on the BMW M3 E46 takes about 1.6 to 1.7 litres, so there is more than enough oil in this kit to perform the oil change.

**Is a 2002 BMW 330i an E46?**

**What is a common E46 issue?** The plastic components in the cooling system on E46 BMWs are prone to becoming brittle and cracking, allowing coolant to make its way out of the cooling system. The resulting loss of coolant can lead to the engine overheating, which can cause catastrophic engine failure.

**Is the E46 318i reliable?** Is the BMW 318i a good & reliable car? So long as it is serviced on time and looked after well, the BMW 318i can be a great, reliable and enjoyable mode of transport. Although it is no tar-burning supercar the 318i has been known for 30 years as a well-made, pleasant way to get around town.

**Is BMW E46 fast?** In several of the subsequent runs, we see the car pushed beyond 260 kph, with its fastest speed nearing 280 kph in the clip. That's 174 mph, for what it's worth.

**Is the E46 FWD or RWD?** It is a 3-door hatchback version of the BMW 3 Series through two generations, for the E36 platform in 1993 and E46 platform in 2001. Unlike most hatchback competitors which were transverse engine front-wheel drive, the 3 Series Compact uses the longitudinal engine rear-wheel drive layout.

**What does E46 stand for?** They call the fourth generation of their popular 3-Series the E46, which ran primarily between 1997 and 2006 in the coupe and convertible body styles.

**When should I change my BMW manual transmission fluid?** For most manual transmissions, you should change your fluid every 30,000 to 60,000 miles; for most automatic transmissions, you should change your fluid every 60,000 to 100,000 miles.

**Does a manual gearbox need oil change?** Manual gearboxes usually require a gearbox oil change every 30,000 to 50,000 mi (48,000 to 80,000 km). Automatic gearboxes usually have gear oil change intervals of between 60,000 to 100,000 mi (96,000 to 160,000 km). It's advisable that you change your gearbox oil filter at the same time as your oil.

**Do you need to change BMW gearbox oil?** Despite BMW claiming that the gearbox on these vehicles are 'sealed for life', ZF (who actually make the gearbox for BMW) recommend an oil and filter service every 62,000 miles (100k) or 8 years, whichever the vehicle reaches the soonest.

**Is the E46 330i fast?** It uses a turbo engine, rear-wheel drive (RWD), and an eight-speed sport automatic transmission to go from 0 to 60 mph in 5.6 seconds.

**Is the E46 good?** The BMW E46 M3 is as good as cars get But we know car design is about compromise. Give and take. Modern cars are technically better, but it's not hard to argue that they've lost something along the way. So we're left with this M3 as the one to worship.

**Is the E46 a v6?** The E46 M3 is powered by the S54 straight-six engine with either a 6-speed manual or a 6-speed SMG-II transmission. The M3 was introduced in late 2000 and was produced in coupé and convertible body styles only.

**What is the big 3 E46 problem?** The BMW E46 M3 with the S54 engine is an incredibly powerful and capable vehicle, but it has some notable points of failure. You will often hear people talk about "The Big 3" when it comes to maintenance on your E46. The Big 3 includes rod bearings, a rebuilt VANOS, and subframe reinforcement.

**Is E46 hard to maintain?** The E46 M3 is honestly not that hard to take care of. There are a few major things you should always keep an eye on and those are outlined in the Mandatory section at the bottom of this article, but otherwise it's easy. Not too expensive either. This is a 20+ year old car now and parts are available or cheap.

**Why are E46 so popular?** The E46 was, for the past few years, the 'poor man's BMW' option since it's too new to be considered a classic and too old to command any sort of market value. They're the cheapest rear-wheel-drive platform you can get into that aren't completely rusted into the ground or just an econobox.

**Are E46 fast?** Fresh from the dyno, the M3 claimed the title of "Fastest BMW" with a speed of 178mph.

**Is the E46 a good beginner car?** It's a good first car if you're already adequately knowledgeable about cars and have been an enthusiast for a while already. Any other case, then yeah it's a little worrying. I have an e46.

**Are E46 prone to rust?** Not all E46s will turn to rust. I've had three now. The previous one had 250k when it died in a tragic accident. That needed some remedial rust work.

**What is the top speed of the 2002 E46?** Interestingly, it has an electronically governed max speed of 155 mph (250 kph), though, obviously, the example from the video reaches speeds well above that limit. **How Much Horsepower Does A High-Mileage BMW M3 E46 Make On The Dyno?**

**Is E46 a drift car?** WHY AN E46? We decided to go with the BMW 3-series e46 after months of searching for the perfect beginner's budget drift car build under \$5k. The e46 is RWD sporting a manual 5-speed transmission and rocks 180HP from its inline 6 cylinder M54B25 engine.

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**Is the E46 fuel efficient?** The engine is LAZY and the gears are short, so I get 27.6 mpg, or in a simple metrical system, 8.5 l per 100 kilometers . If you plan to do some milage with outside driving I would suggest a 323 or a 320 with a 2.2l engine and 170HP except if you are a "calm" driver.

**Which E46 has the M54 engine?** The M54B22 was used on the BMW E46 320i and 320Ci from 2000 to 2006, BMW E39 520i from 2000 to 2003, BMW E36/7 Z3 2.2i between 2000 and 2002, and BMW E85 Z4 2.2i and BMW E60/E61 520i from 2003 to 2005.

**What engine is in a BMW 2002?** It was powered by a spunky 96-hp 1.6-liter inline-four, and it could run about 100 mph flat-out on the autobahn. To create the 2002—the name stands for “two-liter, two-door sedan”—BMW stuffed its 113-hp 2.0-liter inline-four under the 1600's clamshell hood.

**Is the M54 engine reliable?** The M54, produced from 2000 to 2006, is often hailed as one of BMW's most reliable engines. This inline-six engine is known for its smooth operation, impressive durability, and balance between performance and efficiency. Three cars that use the M54 engine: BMW E46 330i (2000–2005)

**Is a 2002 BMW 325i a E46?** When we started tracking with Track Advantage back in 2021 this E46 BMW was the beginners ticket. And after all of the torture we've put it through it's slowly become one of our favorite builds.

**How long do M54 engines last?**

**Are the M52 and M54 the same?** Compared with the final versions of its M52 predecessor (called the 'M52TÜ'), the M54 has a non-return fuel system, a fully electronic throttle (without mechanical backup), Siemens MS 43 engine management, and a revised intake manifold.

**What is the difference between M54 and N54?** Since the N54 is based on the older BMW M54 engine, it has an aluminium engine block (instead of the magnesium alloy used by the N53), a displacement of 2,979 cc (181.8 cu in) and does not have valvetronic (variable valve lift). Turbocharging is a key difference between the N54 and BMW's previous straight-six engines.

**Is the BMW 2002 rare?** The 2002 is a rare classic in that it totally lives up to the hype. A '72 Camaro drives nothing like its modern counterpart, but you can still feel shades of the 2002 in the BMWs of today. A car enthusiast since childhood, Chris Perkins served as Road & Track's engineering nerd and Porsche apologist.

**Is the BMW 2002 fast?** This was Europe's and BMW's first turbocharged production car. It produced 170 PS (125 kW; 168 hp) at 5,800 rpm, with 240 N·m (177 lbf·ft) of torque. The car had a top speed of 211 km/h (131 mph). The 2002 Turbo used the 2002 tii engine with a twin-scroll 0.55 Bar turbocharger developed together with KK&K.

**What is so special about the BMW 2002?** The first thing I noticed was how smooth and responsive the car was. With 140 horsepower and 130 lb-ft of torque at its disposal, the 2002 tii doesn't just drive—it dances on the road. It's a combination of raw and old school driving dynamics, with the engine sound coming in unfiltered.

**Why is the M54 so bumpy?** The bumps are where the concrete surface changes to tarmac surface presumably where under-bridges exist.

**Does M54 have timing chain?** OE Equivalent Main engine timing chain. Over time the original engine chain stretches and ends up breaking guides, leading to mechanical failure. It is good practice to replace timing chains before they get over worn.

**Is M54 a Valvetronic?** Nope, just vanos solenoids and a disa valve.

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**What does e in E46 mean?** The "E" stands for "Entwicklung", the German word for development. The E46 is the body style for: The E46 is the body style for: 1999:

323i, 328i. 2000: All 323 & 328s. 2001+: All 325s, 330s, and the M3 Coupe and M3 Convertible (There are no plans for an E46 M3 Sedan nor Touring).

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