

## E46 M3 S54 Engine

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### E46 M3 S54 Engine

The BMW S54 engine is the high-power variant of the M54 engine, used in the E46 M3, Z3M and early year Z4M's.While the S54 is the big brother to the M54, it was actually built and improved off of the S50 engine, its predecessor from the E36 M3.

### BMW S54 Engine | E46 M3 Engine | Specs, Reliability ...

BMW S54 engine reliability, problems and repair. In 2000 there was next BMW M3 in E46 body. Neither the motor for North America not for Europe used in this model. Now in E46 M3 install only S54. This motor is the flagship of series M54 (which included M54B22, M54B25 and M54B30). New S54 inline-6 based on the European version BMW S50B32 Cast-iron cylinder block of this engine has been improved ...

### BMW E46 M3 engine | S54 specs, problems, tuning, etc.

The BMW M54 is a naturally aspirated straight-6 petrol engine produced from 2000 to 2006. It was released in the E53 X5 and is the replacement for the M52 engine. The S54 is the equivalent high performance engine, used in the E46 M3, the Z3 M Coupé/Roadster and the E85 Z4 M.The BMW M56 SULEV engine (sold in several states of the United States) is based on the M54.

### BMW M54 - Wikipedia

BMW S54 Common Problems. BMW's S54 engine debuted in the 2000 E46 M3 and remained in production through 2008, powering only the E85 Z4 M Roadster in the later years. The stout inline-6 S54 managed an impressive 102.5hp per liter in the 333hp US models. Notably, it is the last naturally aspirated inline-6 M3 engine.

### The 3 Most Common BMW S54 Engine Problems | E46 M3 Problems

Few enthusiasts will refute the majestic appeal of BMW's E46 M3 S54 powerplant. It featured individual throttle bodies, variable valve timing, 333 horsepower, and an 8,000 rpm redline. But like most race bread engines designed for street use, they had their own problems...especially as the mileage accrued.

### Building a Bulletproof BMW S54 M3 Engine with Michael Essa

The BMW S54 engine (found in E46 M3 cars from 2001-2006) is an excellent powerplant and great for engine swaps as well as forced induction applications. ACE Performance is an expert in E46 M3 S54 engine controls. The Emtron KV8 plug in kit allows for a install and control a robust engine management solution.

### BMW M3 S54 ENGINE - COMPLETE PLUG AND PLAY PACKAGE ...

Among BMW E46 M3 specs is the cutting edge, naturally aspirated 3246cc (3.2L) straight six-cylinder engine known as the S54 which is very much the centrepiece of the design. The engine is high compression and features a lightweight crankshaft, dual overhead camshafts (DOHC), 4 valves per cylinder, variable valve timing using BMW's VANOS system and individual throttle bodies (ITBs).

### BMW E46 M3 Specs, BHP, Torque and Model Info | SPANNER RASH

The E46 M3, first introduced in October 2000, was available with the 3.2-litre S54 M-tuned engine. It was available in coupé and convertible body styles. The M3's S54 engine has a redline of 8,000 rpm. As with most M engines, the S54 has 6 individual throttle bodies, in this case electronically operated (drive-by-wire throttle).

### BMW 3 Series (E46) - Wikipedia

Lang Racing Dry Sump Kit - BMW E46 M3 Z3M Z4M S54 Engine. \$3,295.00. Add to Cart. Quick view. BMW S54 Engine Electric Water Pump Conversion Plate E46 M3. \$219.00. Add to Cart. Quick view. BMW E46 Coupe Carbon Fiber Roof Panel. \$1,450.00. Add to Cart. Quick view. Schrick. Schrick DLC Coated E46 M3 ...

### Rebuilt S54 Engine Long Block - Lang Racing Development

BMW S54 Engine Electric Water Pump Conversion Plate E46 M3. This plate allows you to convert from the stock S54 water pump to an external electric water pump. This plate deletes the thermostat and the water pump and creates a port using an AN-16 O-Ring boss. This means you can use a variety of different...

### BMW S54 - Page 1 - Lang Racing Development

2001-2006 BMW E46 M3 Z4 Mcoupe S54 manual engine motor harness 333HP PICKUP ONLY (Fits: BMW M3) \$3,300.00. \$3,500.00 shipping. 110 watching. 2001-2006 BMW E46 M3 //M S54 6-Cylinder Engine Longblock Assembly OEM (Fits: BMW M3) \$3,400.00. or Best Offer. 50 watching.

### Complete Engines for BMW M3 for sale | eBay

BMW E46 M3 S54 3.2L Dropout Engine Motor Complete Swap 2001-2006. Returns Accepted. Genuine OEM part. From a 2003 BMW M3 with 70000 miles. View. \$6,499.99. BMW E46 M3 S54 3.2L Dropout Engine Motor Complete Manual Type Swap 2001-2006. Returns Accepted. Genuine OEM part.

### Buy Used BMW S54 Engines Online on UsedBMWEngines.us

The CarBahn Autoworks S54 3.3L race engine rebuild is blueprinted and balanced, featuring CP centered pin low friction forged pistons and Carrillo forged connecting rods... The bore is enlarged by 1mm, which increases the displacement to 3320cc, and the compression is increased to 12.5:1. A racing spec multi-layer-steel (MLS) head gasket is utilized.

S54 3.3L Race Engine Rebuild | CarBahn Autoworks  
The S54 engine of the M3 E46 offers a solid basis for an improved performance with its standard of 343 HP. For the S54 engine we traditionally rely on the well established aspirated engine-tuning. Therefore we offer different carbon airbox solutions (for standard air intake and for intake from the kidneys) aside from different optimization components like optimized headers, camshafts, coolers etc.

### M3 E46 S54 Engine | BMW M Tuning Teile für M3 M4 1er & 2er ...

The VF-Engineering M3 supercharger for the BMW E46 S54 engine is a fully upgrade-able water cooled supercharger system. Designed to provide the most consistent charge temperatures under aggressive driving, the VF water intercooler system has a greater propensity to dissipate heat energy out of the air charge than an air intercooler.

### BMW (E46) M3 Supercharger (2001-2006) - VF Engineering

The CarBahn Autoworks S54 3.4L race engine rebuild is balanced and blueprinted; it features a 93mm stroker crankshaft, CP centered-pin low-friction forged pistons, Carrillo forged connecting rods, and a racing Multi-Layer Steel (MLS) head gasket. Compression is raised to 12.5:1, and the increase in bore and stroke enlarges displacement to 3393cc. The engine has racing camshafts with very high ...

### S54 3.4L Race Engine Rebuild | CarBahn Autoworks

BMW E46 M3 S54 3.2L Engine Parts & Accessories Categories. Braking; Car Care; Climate Control; Drivetrain; Engine Cooling Covers Drive Belts Electrical Emissions Filter Fuel Gaskets & Seals Ignition Intake Mechanical Mount Oil Service Performance Pulleys Skid Plate Software Supercharger Timing Tools Turbocharger Vacuum System; Exhaust; Exterior ...

### BMW E46 M3 S54 3.2L Engine Parts & Accessories - ECS Tuning

This is, of course, is every automotive engineer's goal. The expense of doing this of course can mean that engine reliability can suffer. Every engine will have a weak point at which it will fail first, or at least most commonly. For the S54 this is the rod bearing. For another engine it might be the rod or the cylinder wall, or something else.

### Finding a Real Solution to the BMW S54 Rod Bearing Failure ...

We recently completed an S54 swap into an E46 325i sedan for a customer. The goal was to create a car that looked like a stock 3 series from the outside but had all the performance of an M3 and I believe we hit that goal. From what I've seen most of the swaps have been done with just the engine in mind.