

Bmw E90 320i Service Manual

Bmw E90 320i Service Manual Diving Deep A Comprehensive Guide to BMW E90 320i Maintenance The BMW E90 320i a renowned symbol of German engineering and driving pleasure demands meticulous care to maintain its peak performance and longevity This comprehensive guide inspired by the official BMW E90 320i service manual aims to empower you with the knowledge to handle routine maintenance tasks and troubleshoot common issues

Understanding Your E90 320i Before delving into maintenance lets familiarize ourselves with the key components of your E90 320i

Engine The N46B20 engine a 20liter fourcylinder powerhouse needs regular care to ensure smooth operation

Transmission The E90 320i boasts a variety of transmissions including the smoothshifting 6speed manual and the responsive 6speed automatic

Suspension The E90s independent suspension a hallmark of its handling prowess requires periodic inspection and adjustment

Braking System Powerful and reliable disc brakes demand regular checks and fluid changes to maintain optimal braking performance

Essential Maintenance Tasks Maintaining your E90 320i is a proactive approach to ensuring a long and troublefree ownership experience Heres a breakdown of essential tasks

- 1 Oil Changes**
Frequency Every 7500 miles or 12000 kilometers or as per the vehicles service indicator
Oil Type Refer to the service manual for the recommended oil viscosity and specification eg 5W30
Steps Warm up the engine Locate the oil drain plug on the bottom of the oil pan Place a drain pan beneath the plug
2 Unscrew the drain plug carefully Allow the oil to drain completely Replace the drain plug with a new washer Remove the oil filter cover located near the engine Replace the oil filter with a new one Refill the engine with the correct amount of new oil refer to the service manual for exact volume Start the engine for a few minutes and check for leaks
- 2 Air Filter Replacement**
Frequency Every 15000 miles or 24000 kilometers
Steps Locate the air filter housing usually found near the engine Release the clips or latches holding the air filter housing in place Remove the old air filter Install the new air filter ensuring its properly seated Secure the air filter housing
- 3 Spark Plug Replacement**
Frequency Every 60000 miles or 96000 kilometers
Steps Refer to the service manual for the correct spark plug type and torque specifications Disconnect the ignition coils Remove the old spark plugs using a spark plug socket Install the new spark plugs ensuring they are tightened to the correct torque Reconnect the ignition coils
- 4 Brake Fluid Replacement**
Frequency Every two years or 30000 miles whichever comes first
Steps Refer to the service manual for the recommended brake fluid type Locate the brake fluid reservoir usually found near the firewall Remove the

reservoir cap and carefully suction out the old fluid Add the new fluid to the reservoir being careful not to overfill Bleed the brake system to remove any air bubbles consult a qualified mechanic for this process

3 5 Coolant Flush Frequency

Every 45000 miles or 72000 kilometers

Steps

Refer to the service manual for the recommended coolant type Locate the coolant reservoir usually found near the radiator Drain the old coolant from the radiator and engine block Fill the system with the new coolant following the manufacturers instructions Run the engine until the coolant reaches operating temperature Check for leaks and top up the coolant level as needed

Troubleshooting Common Issues

The E90 320i is generally reliable but certain issues may arise Here are some common problems and their potential solutions

Engine Misfires

Check the spark plugs ignition coils and fuel injectors

Rough Idle

Inspect the throttle body air filter and mass airflow sensor

Check Engine Light CEL

Use an OBDII scanner to read the error codes and diagnose the problem

Transmission Problems

Check the transmission fluid level and have the transmission serviced if necessary

Suspension Noise

Inspect the suspension components including struts shocks control arms and ball joints

Braking Issues

Inspect the brake pads rotors calipers and fluid lines

Expert Advice

Regular Inspections

Schedule routine inspections at least once a year or every 10000 miles

Maintain Service Records

Keep track of all maintenance tasks performed on your E90 320i

Use Genuine Parts

Always use BMWapproved parts to ensure quality and compatibility

Seek Professional Help

Dont hesitate to consult a qualified BMW mechanic for any complex repairs or troubleshooting

Final Thoughts

The BMW E90 320i is a remarkable vehicle but it requires proper care to maintain its performance and reliability By following these maintenance guidelines and addressing any issues promptly you can ensure your E90 320i remains a driving pleasure for years to come

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trace the 50 year success story of bmw s 3 series in this luxuriously produced and stunningly illustrated volume from its launch in 1975 with the 316 the 3 series has moved from strength to strength defining what it means to be a performance sedan coupe wagon beloved by enthusiasts worldwide it is the series benchmarked by all other manufacturers whether daily driven tracked or raced bmw s 3 series delivers the goods bmw 3 series 50 years charts the 3 series design and technical evolution from the 1970s to today from the clean classic two box design of the e21 and e30 to the handsome e46 to today s sophisticated g20 the book features a detailed history of the bmw 3 series by automotive historian and industry analyst tony lewin first person interviews with key designers and engineers photography from bmw s archive as well as commissioned contemporary photography sidebars diving into interesting stories covering design related models like the z cars and the collector perspective the 3 series is a performance and competition story as well with no car more storied or critical to bmw s reputation than its vaunted m3 racing and m3s play out across the book s chapters providing a performance perspective across the 3 series 50 years with decades of showroom performance and competition success bmw s 3 series in all its permutations shows no signs of slowing down bmw 3 series 50 years details the full story in a lively volume deserving space in every enthusiast s collection

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this manual contains in depth maintenance service and repair information for the bmw 3 series e90 e91 e92 e93

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information on routine servicing and repair for the diy mechanic with tasks described and photographed in a step by step sequence

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