

# 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 BMW approved 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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