

BMW 3-Series (92-98) & Z3 (96-98) Haynes Online Manual

Specifications

Recommended lubricants and fluids

Note:

Listed here are manufacturer recommendations at the time this manual was written. Manufacturers occasionally upgrade their fluid and lubricant specifications, so check with your local auto parts store for current recommendations.

Engine oil

Type API "certified for gasoline engines"

Viscosity SAE 10W/40 to 20W/50

Cooling system 50/50 mixture of ethylene glycol based antifreeze

Manual transmission

1992

Green label Gear Lubricant Special (GLS)*

Red label DEXRON III type ATF*

No label 80W GL-4*

1993 and later DEXRON III type ATF*

Automatic transmission

1992 through 1996 DEXRON III type ATF*

1997 and later Special Lubricant Fluid (SLF)*

Final drive unit Hypoid gear oil*

Braking system DOT 4 brake fluid

Power steering DEXRON II type ATF*

Capacities*

Engine oil (including filter)

^{*}Refer to your BMW dealer for brand name and type recommendations.

Four-cylinder engines 4.7 quarts
Six-cylinder engines 6.8 quarts

Cooling system

Four-cylinder engines 6.8 quarts
Six-cylinder engines 11 quarts

Transmission

Manual transmission

1992 1.2 quarts

1993 and later

318, 320 and 325

328 and Z3

1.2 quarts

Automatic transmission

3.2 quarts

Differential

Four-cylinder models 1.2 quarts
Six-cylinder models 1.8 quarts

Power-assisted steering

All models (approximate) 1.5 quarts

Ignition system

Spark plug type

Four-cylinder engines Champion RC9YC

Six-cylinder engines

2.5L Champion RC9YC
2.8L Champion R12YC

Spark plug electrode gap (all) 0.035 inch

Drivebelts

Air conditioning compressor drivebelt tensioning torque (see Section 7):

Used drivebelt 5.0 to 6.0 ft-lbs

New drivebelt 4.0 to 5.0 ft-lbs

Brakes

Brake pad friction material minimum thickness 5/64 inch

Parking brake shoe friction material minimum 1/16 inch thickness

Ft-lbs (unless otherwise indicated)

Torque specifications

Engine oil pan oil drain plug:

M12 plug 26
M22 plug 44
Cylinder block coolant drain plug 21

Automatic transmission oil drain plug 133 to 150 in-lbs

Automatic transmission oil filler/level plug

1994 and earlier Not available

1995 on 74

Automatic transmission fluid pan bolts 62 to 71 in-lbs

Automatic transmission oil screen screws 44 in-lbs

Manual transmission oil drain plug 37

Manual transmission oil filler/level plug 37

Differential filler/level and drain plugs 52

Spark plugs 22

Wheel bolts 74

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