

**Haynes**  
*shows you how*

[BMW 3-Series 320i & 320xi \(12-14\), 325i, 325xi, 330i & 330xi \(06\) & 328i & 328xi \(07-14\) Haynes Online Manual](#)

## 11 Engine overhaul - reassembly sequence

1 Before beginning engine reassembly, make sure you have all the necessary new parts, gaskets and seals as well as the following items on hand:

- Common hand tools
- A 1/2-inch drive torque wrench
- New engine oil
- Gasket sealant
- Thread-locking compound

2 If you obtained a short block, it will be necessary to install the cylinder head, the oil pump and pick-up tube, the oil pan, the water pump, the timing chain and timing cover, and the valve cover (see [Chapter 2A](#)). In order to save time and avoid problems, the external components must be installed in the following general order:

- Thermostat and housing cover
- Water pump
- Intake and exhaust manifolds
- Fuel injection components
- Emission control components
- Spark plugs
- Ignition coils
- Oil filter
- Turbocharger (if equipped)
- Engine mounts and mount brackets

- **Clutch and flywheel (manual transmission)**
- **Driveplate (automatic transmission)**

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