

# Chapter 2 Part C: Zetec engine - in-car engine repair procedures

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## Degrees of difficulty

Easy, suitable for  
novice with little  
experience



Fairly easy, suitable  
for beginner with  
some experience



Fairly difficult,  
suitable for competent  
DIY mechanic



Difficult, suitable for  
experienced DIY  
mechanic



Very difficult,  
suitable for expert  
DIY or professional



2C

## Specifications

### General

|                                  |  |
|----------------------------------|--|
| Engine type                      | Four-cylinder, in-line, double overhead camshaft |
| Engine code:                     |  |
| 1.6 litre models                 | LIE  |
| 1.8 litre models                 | RDA, ROB   |
| Capacity:                        |  |
| 1.6 litre models                 | 1397 cc  |
| 1.8 litre models                 | 1796 cc  |
| Bore:                            |  |
| 1.6 litre models                 | 76.0 mm  |
| 1.8 litre models                 | 80.0 mm  |
| Stroke - all models              | 88.0 mm  |
| Compression ratio:               |  |
| 1.6 litre models                 | 10.2:1   |
| 1.8 litre models                 | 10.0:1   |
| Firing order                     | 1-3-4-2 (No. 1 cylinder at timing belt end)      |
| Direction of crankshaft rotation | Clockwise (seen from right hand side of vehicle) |

### Cylinder head

|                                       |                     |
|---------------------------------------|---------------------|
| Hydraulic tappet bore inside diameter | 28.250 to 28.420 mm |
|---------------------------------------|---------------------|

### Camshafts and hydraulic tappets

|   |                     |
|---|---------------------|
| Camshaft bearing/journal diameter                           | 23.960 to 23.980 mm |
| Camshaft bearing/journal to cylinder head running clearance | 0.020 to 0.070 mm   |
| Camshaft endfloat   | 0.080 to 0.200 mm   |

### Lubrication

|                               |   |
|-------------------------------|---|
| Engine oil type/specification | See Chapter 1                               |
| Engine oil capacity           | See Chapter 1                               |
| Oil pressure                  | No information available at time of writing |
| Oil pump clearances           | No information available at time of writing |

# Ford Zetec Engine Repair Manual

**Michael Hoelscher**



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