

- I - GENERAL
- 2 - ENGINE
- 3 - FUEL SYSTEM
- 4 - ELECTRICAL
- 5 - STEERING

**845B / 845B DHP**  
**865B / 865B VHP / 865B AWD**  
**885B / 885B DHP / 885B AWD**  
Grader

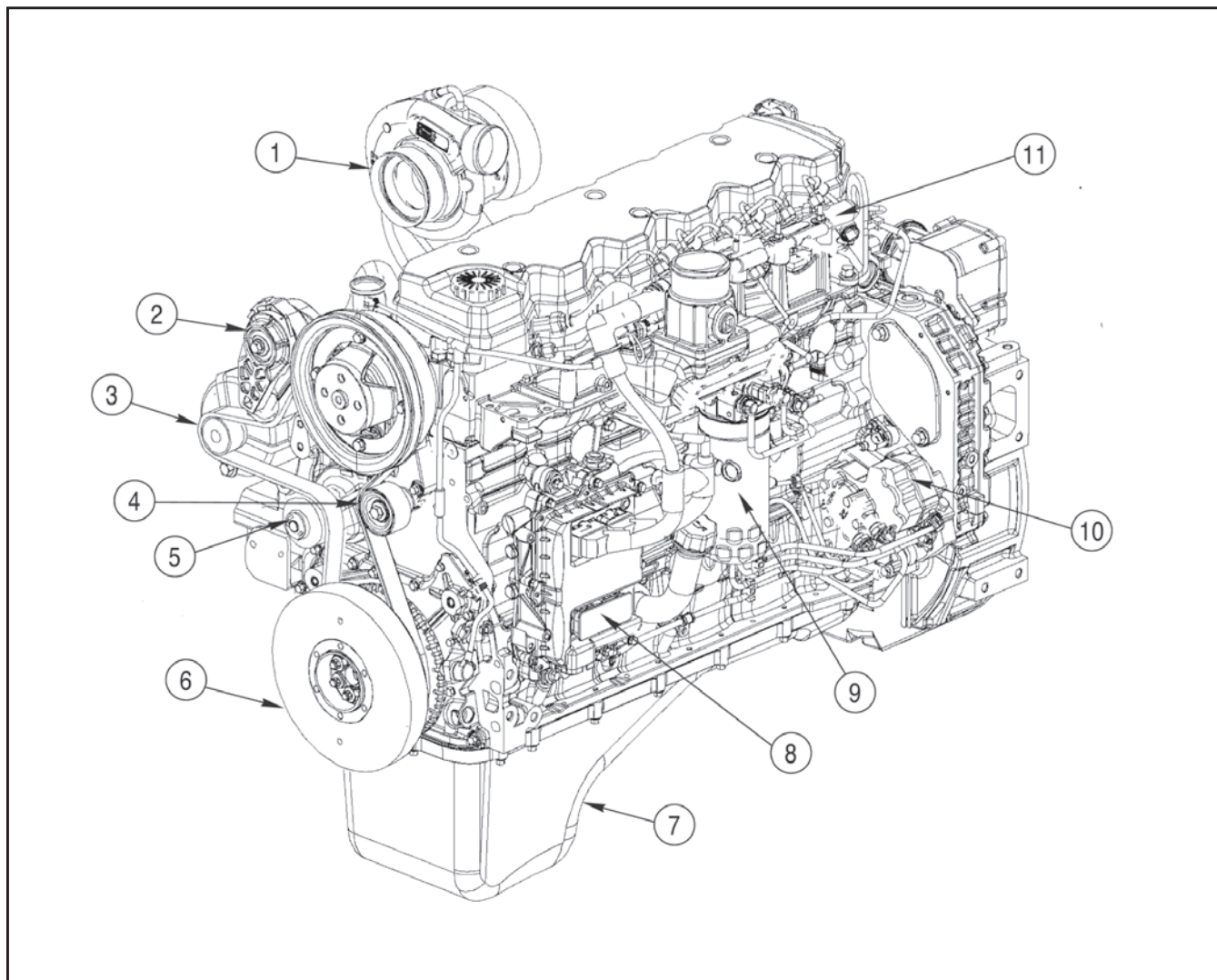
# SERVICE MANUAL

Part number **84559573**

English  
October 2011



## 667TA ENGINES



BS06K020

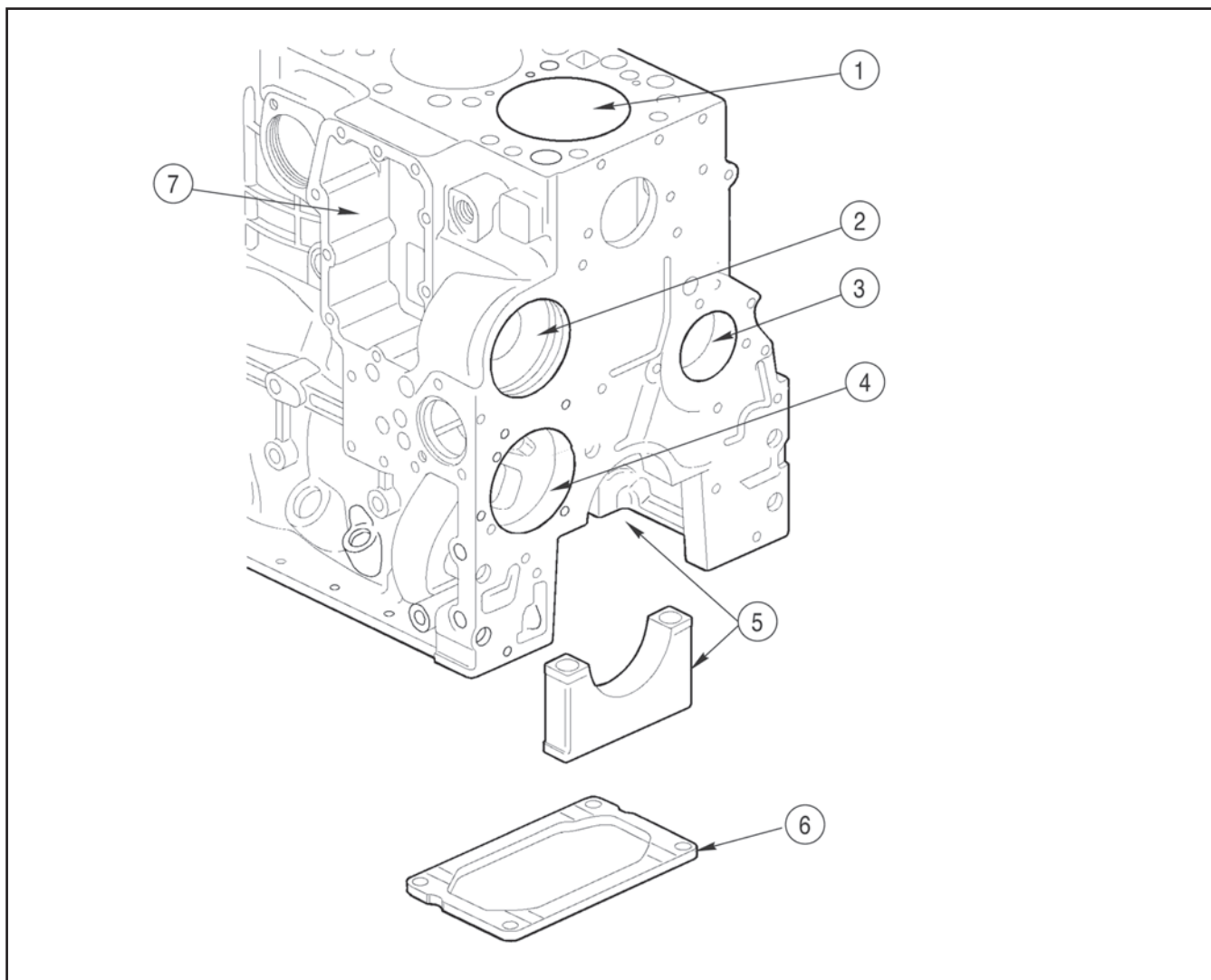
Figura 3000-12

1. TURBOCHARGER
2. AUTOMATIC TENSION BELT
3. ALTERNATOR
4. FIX GUIDE PULLEY
5. WATER PUMP
6. ENGINE FLYWHEEL COUNTERWEIGHT

7. OIL SUMP
8. ELECTRONIC CONTROL UNIT - E.C.U.
9. FUEL FILTER
10. HIGH PRESSURE PUMP
11. COMMON RAIL

## DESCRIPTION OF ENGINE MAIN COMPONENTS

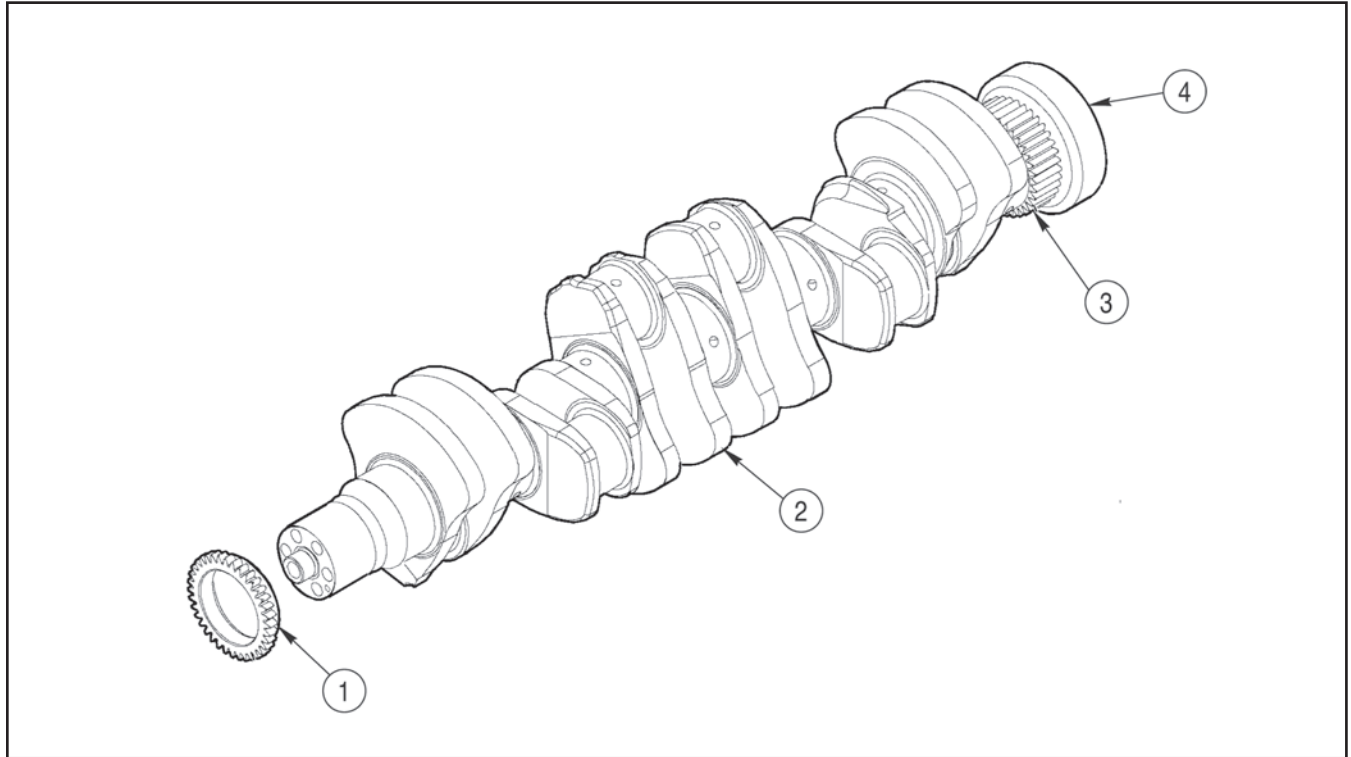
### Engine Block



- |                                  |   |
|----------------------------------|---|
| 1. CYLINDER BORE                 | 5. MAIN JOURNALS                          |
| 2. MOUNTING FOR WATER PUMP       | 6. STIFFENING PLATE                       |
| 3. MOUNTING FOR CAMSHAFT BEARING | 7. MOUNTING FOR WATER-OIL EXCHANGE HEATER |
| 4. MOUNTING FOR OIL PUMP         |   |

The cylinder block is a cast iron structure with cylinders bores (1), main journals (5) e moun-tings for camshaft bearing (3) and valves, water-oil exchanger heater (7), water pump (2) and oil pump (4). The block also has coolant and oil passages. The lubrication circuit provides oil for the moving parts. The stiffening plate (6) is applied in the engine block botton to increase the resistance to mechanical fatigue.

## Crankshaft



BS06K022

Figura 3000-14

- 1. OIL PUMP GEAR
- 2. CRANKSHAFT

- 3. TIMING GEAR
- 4. MOUNTING FOR ENGINE FLYWHEEL

The crankshaft is steel made and rests in seven journals tempered by induction.

There is a series of drilled passages for the lubricating oil.

The follow items are pressed in front: oil pump gear (1), position sensor sprocket, counterweight, and the auxiliary devices pulley.

The follow items are pressed in rear: timing gear (3), and the mounting for engine flywheel (4).

The main journals bearings are steel made and coated by a anti-friction alloy. One of them is equipped with shoulders to limit the cranckshaft axial clearance.

The timing gear (3) and the engine flywheel mounting (4) are forced positioned in the cranckshaft rear and can not be replaced.

### CRANCKSHAFT OIL SEALS

The front and rear seals are box type with radial sealing. To remove them use the special tools 380000665 e 380000663. For installation se special tools 380000666 e 380000664.

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