



Service Repair Manual

Models

345B Series II Excavator

Product: EXCAVATOR

Model: 345B II EXCAVATOR ALD

Configuration: 345B Series II Excavators ALD00001-UP (MACHINE) POWERED BY 3176C Engine

Disassembly and Assembly 3176C and 3196 Engines for Caterpillar Built Machines

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i01771996

Cylinder Head - Remove

SMCS - 1100-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	185-3630	Strap Wrench Assembly	1

Start By:

- A. Remove the base for the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover Base - Remove and Install".
- B. Remove the rocker shaft and the pushrods. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrod - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers

before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

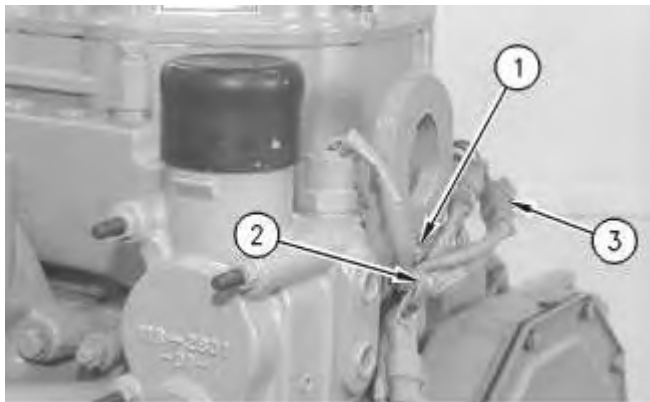


Illustration 1

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1. Remove bolt (1). Remove clip (2) .
2. Disconnect sensors from engine wiring harness (3) .
3. Remove the sensors.

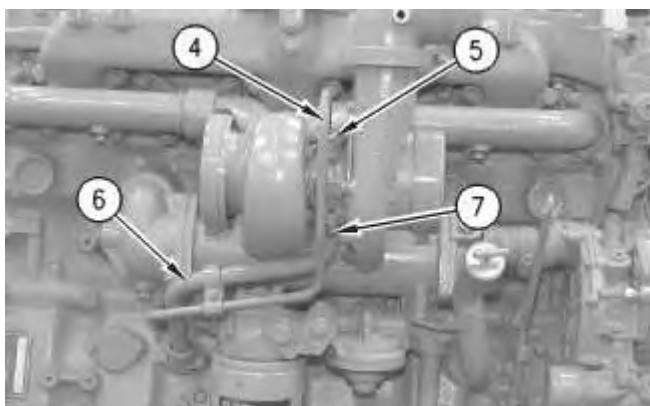


Illustration 2

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4. Remove bolts (5). Disconnect tube assembly (4) and remove the O-ring seal.
5. Remove bolts (7). Disconnect tube assembly (6) and remove the O-ring seals.

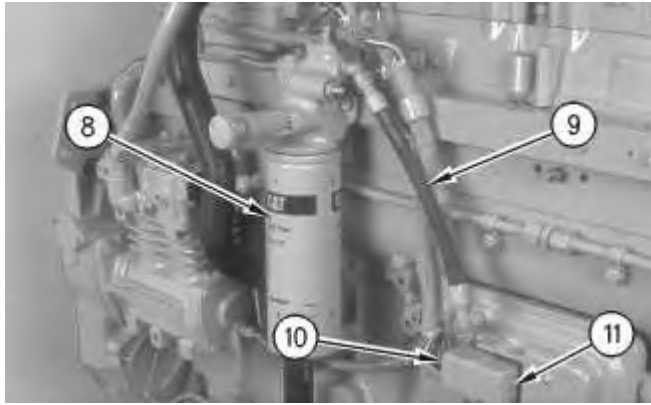


Illustration 3

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Typical example

6. Use Tooling (A) in order to remove fuel filter (8). Disconnect hose (9). Plug all openings immediately.
7. Loosen bolt (11). Disconnect wiring harness (10) .

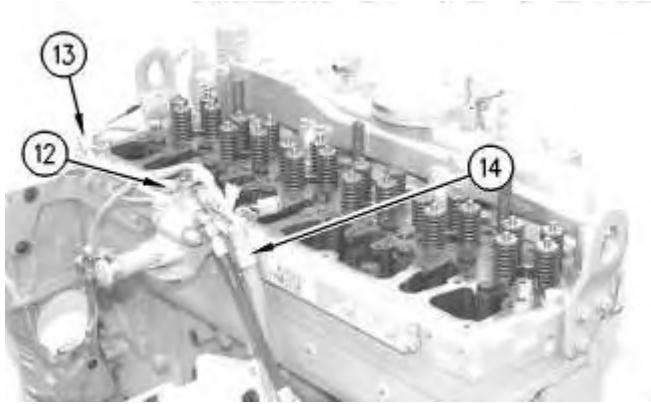


Illustration 4

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Typical example

8. Disconnect sensor connector (13) and clips (12). Remove clip (14) and the bolt.
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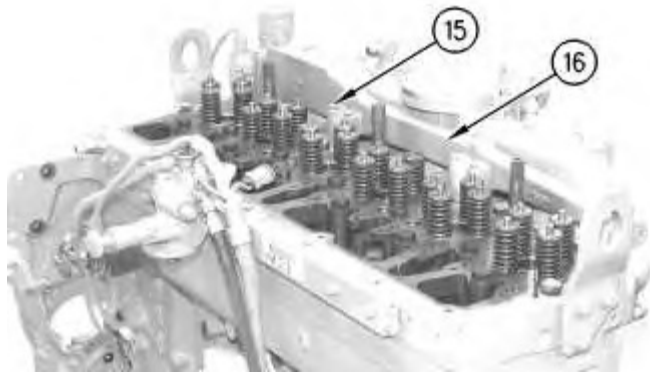


Illustration 5

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Typical example

9. Remove bolts (15) .
10. Remove water outlet manifold (16) .

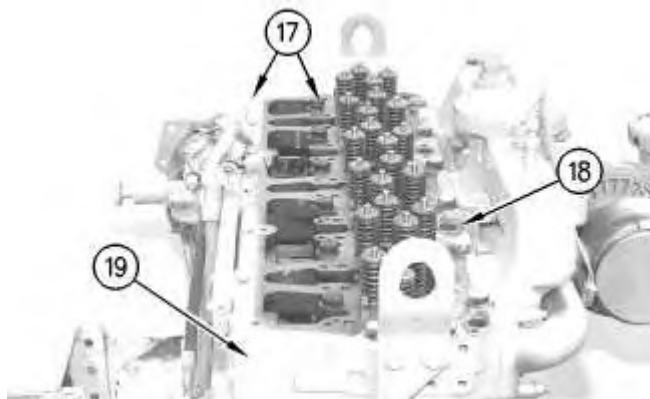


Illustration 6

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11. Remove head bolts (17) .
 12. Remove water outlet manifold gaskets (18) from cylinder head (19) .
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