



Service Repair Manual

Models

345B L EXCAVATOR

Product: EXCAVATOR
Model: 345B L EXCAVATOR 8RW
Configuration: ISJ HEX COMMONALITY CHART 8RW00001-UP (MACHINE)

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

Media Number -REN1223-15

Publication Date -01/08/2015

Date Updated -03/08/2015

i07141366

Rocker Shaft and Pushrod - Install

SMCS - 1102-012; 1208-012

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Inspect the condition of the following items: rocker arms, valve bridges, and push rods. Replace the parts, if necessary.

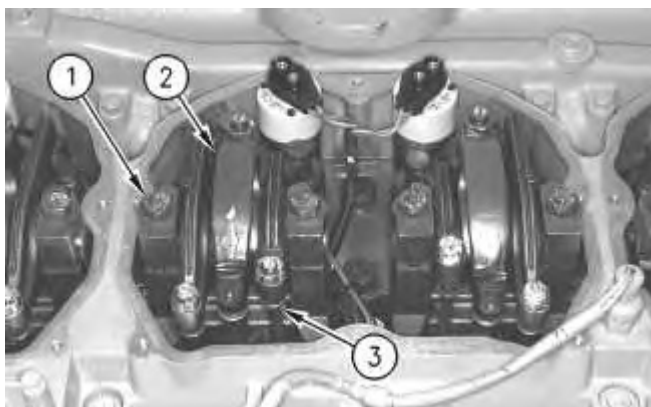


Illustration 1

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2. Install push rods (3) in the correct location in the engine.
-



Illustration 2

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3. Install valve bridges (4). Lubricate the top surface of the valve bridges with clean engine oil.
4. Place rocker arms (2) in the correct locations that were marked during removal. Install bolts (1) and tighten to a torque of 100 ± 20 N·m (74 ± 15 lb ft).

End By:

- a. Install the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover - Remove and Install".

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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:

- Remove the base for the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover Base - Remove and Install".
- 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.

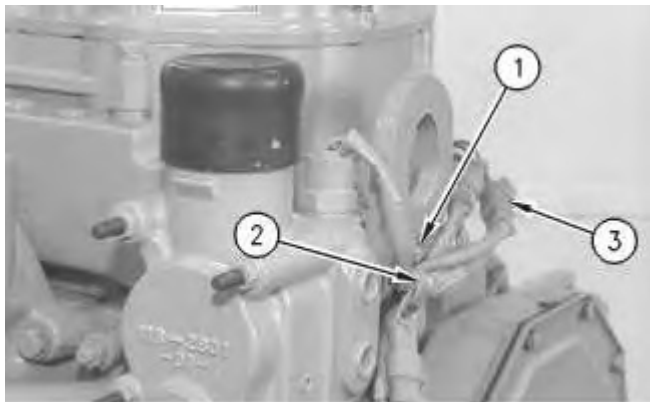


Illustration 1

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

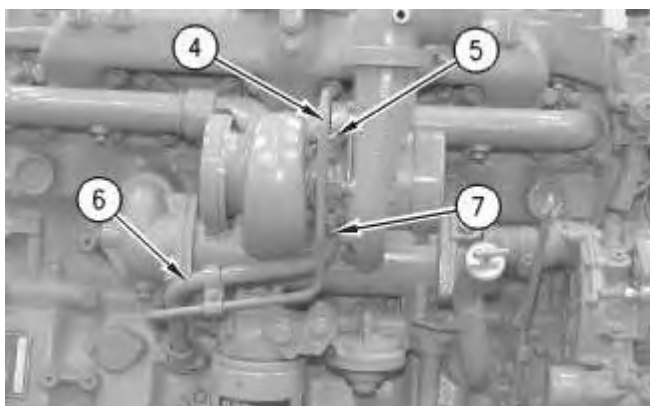


Illustration 2

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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.

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