Model: 315-A EXCAVATOR 4YM

Configuration: 315 315L TRACK-TYPE EXCAVATOR 4YM00001-UP (MACHINE) POWERED BY 3046 ENGINE

Disassembly and Assembly3046 Engine For Caterpillar Built Machines

Media Number -SENR6458-05 Publication Date -01/04/2004

Date Updated -22/04/2004

i01032735

Cylinder Head - Remove

SMCS - 1100-011

Removal Procedure

Start By:

- A. Remove the turbocharger. Refer to Disassembly and Assembly, "Turbocharger Remove".
- B. Remove the rocker shaft and pushrods. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrods Remove".
- C. Remove the fuel injection nozzles in order to protect from damage. Refer to Disassembly and Assembly, "Fuel Injection Nozzles Remove".
- D. Remove the glow plugs in order to protect from damage. Refer to Disassembly and Assembly, "Glow Plugs Remove and Install".

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 machine. 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 in Caterpillar machines.

Dispose of all fluids according to local regulations and mandates.

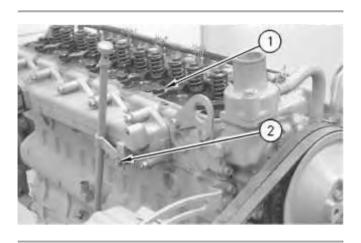


Illustration 1 g00562585

1. If necessary, remove bolt (2) and remove oil tube assembly (dipstick).

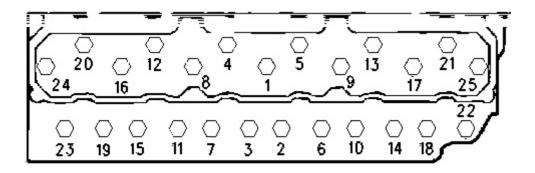


Illustration 2 g00531679

Cylinder Head Tightening Sequence

2. Gradually remove 25 cylinder head bolts (1) in reverse order of the tightening sequence.

Note: Do not use a pry bar to separate the cylinder head from the engine block.



Illustration 3 g00560287

3. Attach a hoist to the cylinder head lifting brackets and remove the cylinder head from the cylinder block. The weight of the cylinder head assembly is 60 kg (132 lb).

Note: Place the cylinder head on a surface that will not damage the face of the cylinder head.

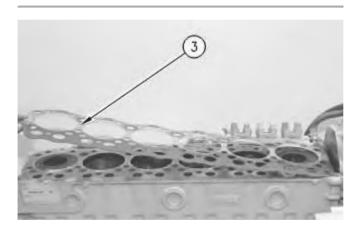


Illustration 4 g00560297

4. Remove the cylinder head gasket (3).

Model: 315-A EXCAVATOR 4YM

Configuration: 315 315L TRACK-TYPE EXCAVATOR 4YM00001-UP (MACHINE) POWERED BY 3046 ENGINE

Disassembly and Assembly 3046 Engine For Caterpillar Built Machines

Media Number -SENR6458-05

Publication Date -01/04/2004

Date Updated -22/04/2004

i02063403

Cylinder Head - Install

SMCS - 1100-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-7995	Guide Pin	2

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

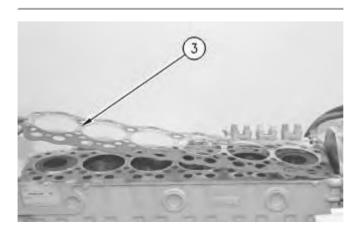


Illustration 1 g00560297

1. Clean the surfaces of the cylinder head and the cylinder block that are in contact with each other. Ensure that the surfaces are clean and dry. Install a new, dry cylinder head gasket (3) on the cylinder block.

Note: Do not use any sealant or gasket adhesive on the cylinder head gasket.

2. Install Tool (A) (not shown) on the cylinder block in order to install the cylinder head.



Illustration 2 g00560287

- 3. Attach a hoist to the cylinder head lifting brackets and install the cylinder head in position on the cylinder block. The weight of the cylinder head assembly is 60 kg (132 lb).
- 4. Remove Tool (A).
- 5. Apply **6V-4876** Lubricant to all of the threads and thrust faces of cylinder head bolts (1).

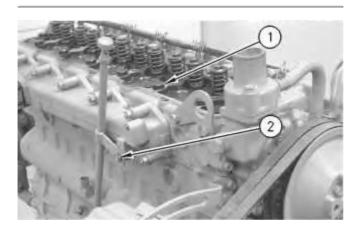


Illustration 3 g00562585

Thank you so much for reading. Please click the "Buy Now!" button below to download the complete manual.



After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email: ebooklibonline@outlook.com