



Service Repair Manual

Models

D9N TRACK-TYPE TRACTOR

Product: TRACK-TYPE TRACTOR

Model: D9N TRACK-TYPE TRACTOR 1JD

Configuration: D9N TRACTOR 1JD00001-UP (MACHINE) POWERED BY 3408 ENGINE

Disassembly and Assembly 3408E and 3412E Engines for Caterpillar Built Machines

Media Number -SEN1013-11

Publication Date -01/07/2015

Date Updated -22/08/2016

i02161082

Rocker Arm and Shaft - Install

SMCS - 1102-012

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

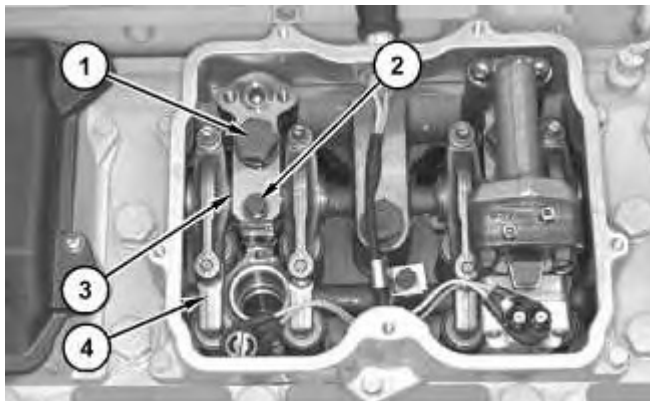


Illustration 1

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1. Lubricate the wear pad on top of valve bridges (4) with clean engine oil. Install valve bridges (4).
2. Install the pushrods.

3. Install the O-ring seal and rocker arm assembly (3).
4. Install cylinder head bolt (1) and bolt (2). Do not tighten bolt (2) at this time.
5. Tighten cylinder head bolt (1) to a torque of 270 ± 15 N·m (199 ± 11 lb ft). Tighten cylinder head bolt (1) again to a torque of 450 ± 15 N·m (332 ± 11 lb ft). Tighten cylinder head bolt (1) again to a torque of 450 ± 15 N·m (332 ± 11 lb ft). Tighten bolt (2) to the standard torque value.

End By:

- a. Install the unit injector. Refer to Disassembly and Assembly, "Unit Injector - Install".

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i02184090

Cylinder Head - Remove

SMCS - 1100-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	2
B	5P-8700	Lifting Bracket	2

Start By:

- Remove the unit injector sleeves. Refer to Disassembly and Assembly, "Unit Injector Sleeve - Remove".
- Remove the exhaust manifold. Refer to Disassembly and Assembly, "Exhaust Manifold - 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 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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

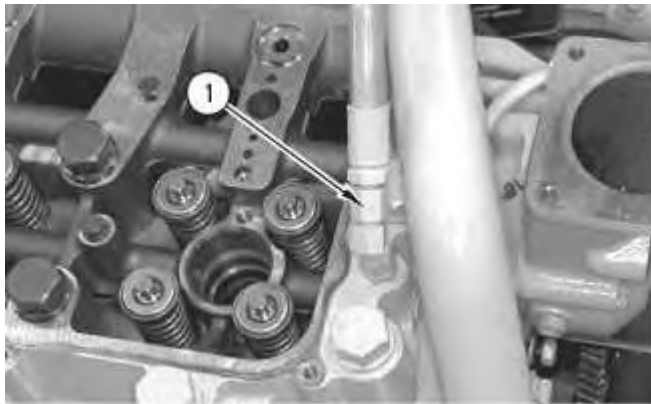


Illustration 1

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1. Remove hose assembly (1) from the front of the fuel manifold.

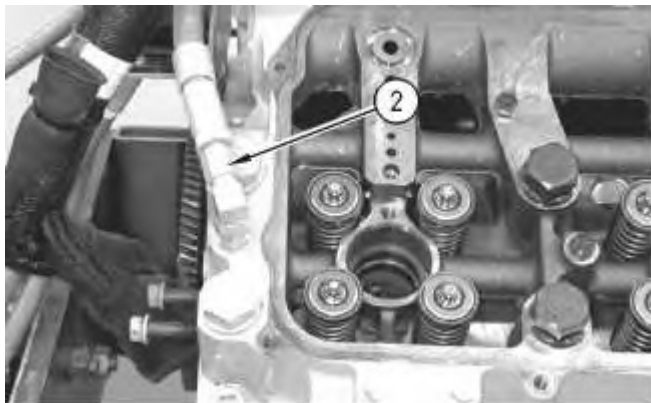


Illustration 2

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2. Remove hose assembly (2) from the rear of the fuel manifold.
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