



# Service Repair Manual

## **Models**

# 621G Wheel Tractor

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Product: WHEEL TRACTOR

Model: 621G WHEEL TRACTOR CEN

Configuration: 621G Wheel Tractor CEN00001-UP (MACHINE) POWERED BY 3406E Engine

## **Disassembly and Assembly 3406E and 3456 Engines for Caterpillar Built Machines**

Media Number -REN1364-06

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i02489840

# **Cylinder Head - Remove**

SMCS - 1100-011

## **Removal Procedure**

### **Start By:**

- A. Remove the water temperature regulator. Refer to Disassembly and Assembly, "Water Temperature Regulator - Remove and Install".
- B. Remove the exhaust manifold. Refer to Disassembly and Assembly, "Exhaust Manifold - Remove and Install".
- C. Remove the valve mechanism cover base. Refer to Disassembly and Assembly, "Valve Mechanism Cover Base - Remove and Install".
- D. Remove the electronic unit injectors. Refer to Disassembly and Assembly, "Electronic Unit Injector - Remove".
- E. Remove the camshaft gear. Refer to Disassembly and Assembly, "Camshaft Gear - Remove and Install".

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### **NOTICE**

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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### **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 Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.**

**Dispose of all fluids according to local regulations and mandates.**

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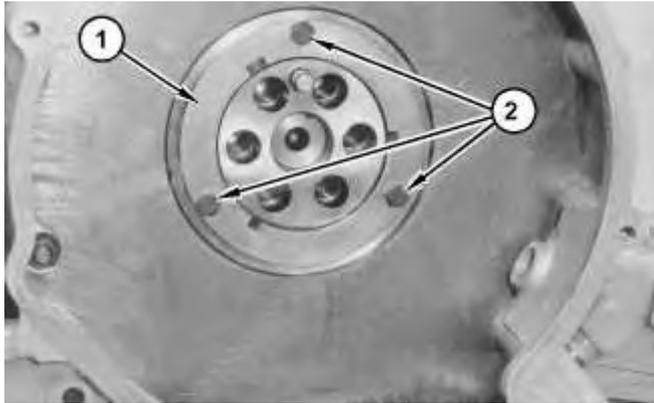


Illustration 1

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### **NOTICE**

**Do not turn the crankshaft or the camshaft while the camshaft gear is removed. If the front gear group is not correctly timed during installation, interference can occur between the pistons and the valves, resulting in damage to the engine.**

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1. Remove bolts (2) and thrust plate (1) .
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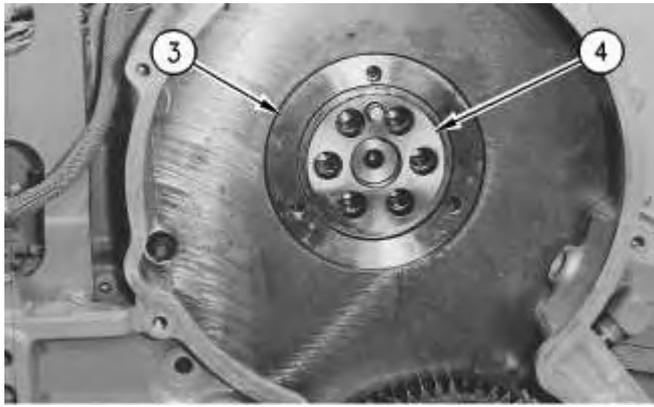


Illustration 2

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2. Remove seal assembly (3) and adapter (4) .

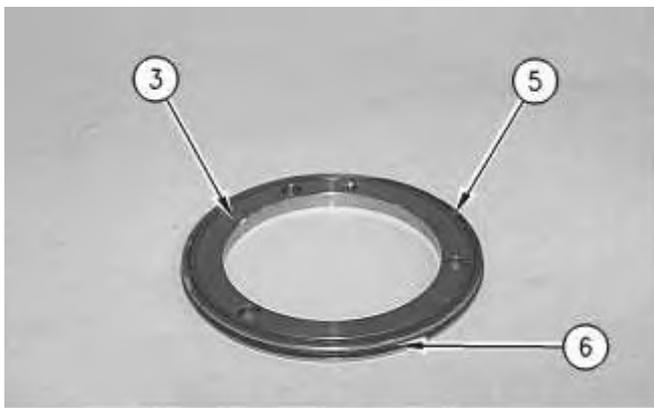


Illustration 3

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3. Remove O-ring seals (5) and (6) from seal assembly (3) .

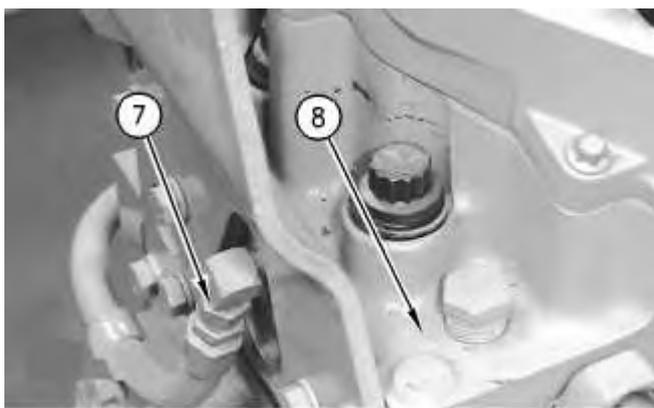


Illustration 4

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4. Disconnect hose assembly (7) from cylinder head (8) .

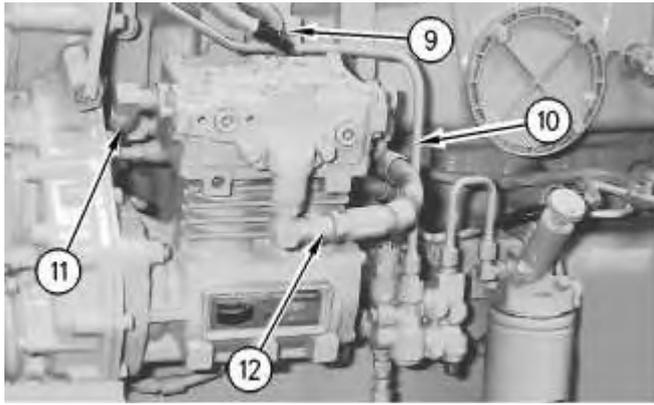


Illustration 5

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**Note:** If the engine is not equipped with an air compressor, skip Step 5.

5. Disconnect hose assemblies (11) and hose assemblies (12) from the air compressor.
6. Remove the bolt and clamp (9) from the hose assembly. Remove hose assembly (10) .

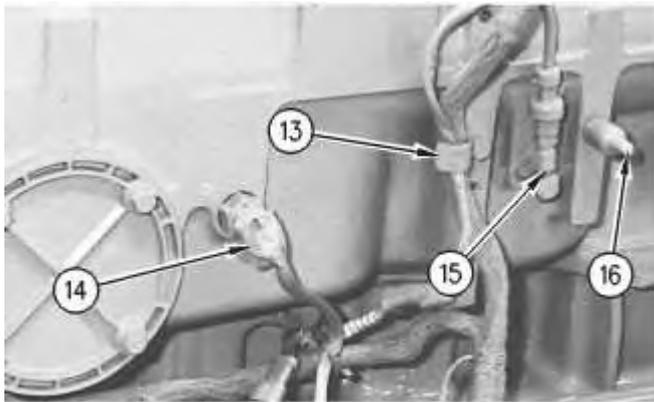


Illustration 6

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7. Remove the bolt and support clip (13) for the harness assembly.
  8. Disconnect the harness assembly from sensor (14) , sensor (15) , and ground stud (16) .
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