



Service Repair Manual

Models

336E and 336E L HVG
Excavator

Product: MOBILE HYD POWER UNIT

Model: 336E HVG MOBILE HYD POWER UNIT RBS

Configuration: 336E L HVG UHD Mobile Hydraulic Power Unit RBS00001-UP (MACHINE) POWERED BY C9.3 Engine

Disassembly and Assembly

C9.3

Engines for Caterpillar Built Machines

Media Number -KENR8149-07

Publication Date -01/05/2014

Date Updated -29/05/2014

i02271627

Flywheel - Install

SMCS - 1156-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Bolt (M16 x 2 by 4 inch)	1
B	138-7573	Link Bracket	1
C	FT-2711	Special Bolt	2
D	9S-3263	Thread Lock Compound	1

1. Raise the temperature of the flywheel ring gear. Do not use a torch to heat the flywheel ring gear. Install the flywheel ring gear on the flywheel. Position the flywheel ring gear with the part number toward the crankshaft. Allow the flywheel ring gear to cool. Use a soft hammer in order to seat the flywheel ring gear against the shoulder of the flywheel.
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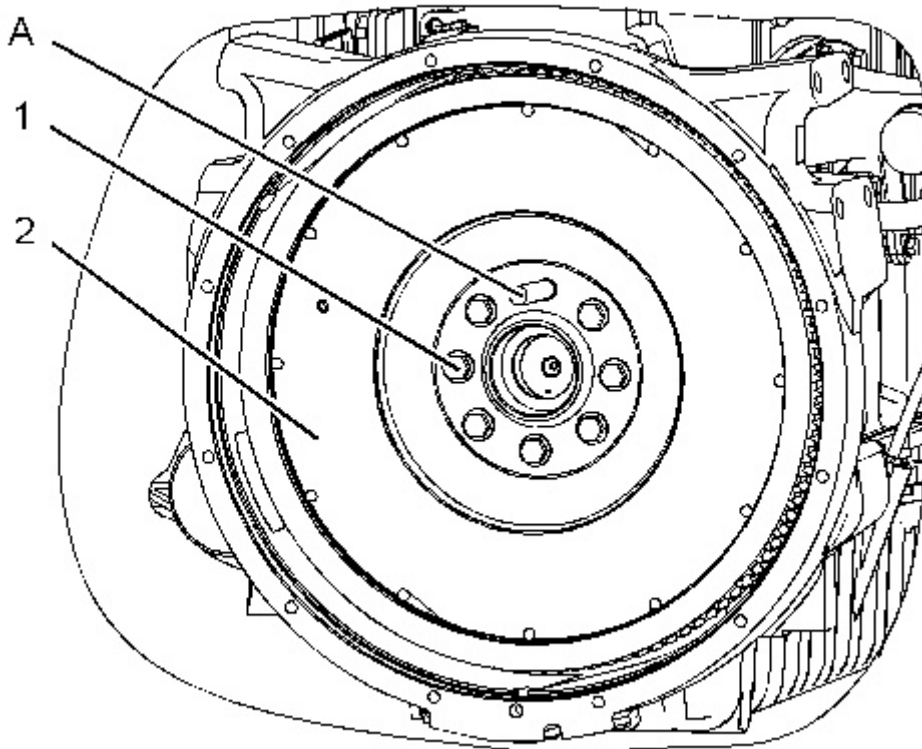


Illustration 1

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2. Attach Tooling (B) and a suitable lifting device to flywheel (2). The weight of flywheel (2) is approximately 40 kg (85 lb).
3. Position flywheel (2) on Tooling (A).
4. Apply Tooling (D) to the threads of bolts (1).

Note: Tooling (C) should be removed at this time, if Tooling (C) was used in the removal procedure for the flywheel.

5. Install bolts (1). Remove Tooling (A) and install remaining bolt (1). Tighten the bolts evenly to a torque of 300 ± 40 N·m (221 ± 30 lb ft).
6. Check the flywheel runout. Refer to Testing and Adjusting, "Flywheel - Inspect".

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Crankshaft Rear Seal - Remove

SMCS - 1161-011

Removal Procedure

Start By:

- A. Remove the flywheel. Refer to Disassembly and Assembly, "Flywheel - Remove".

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.

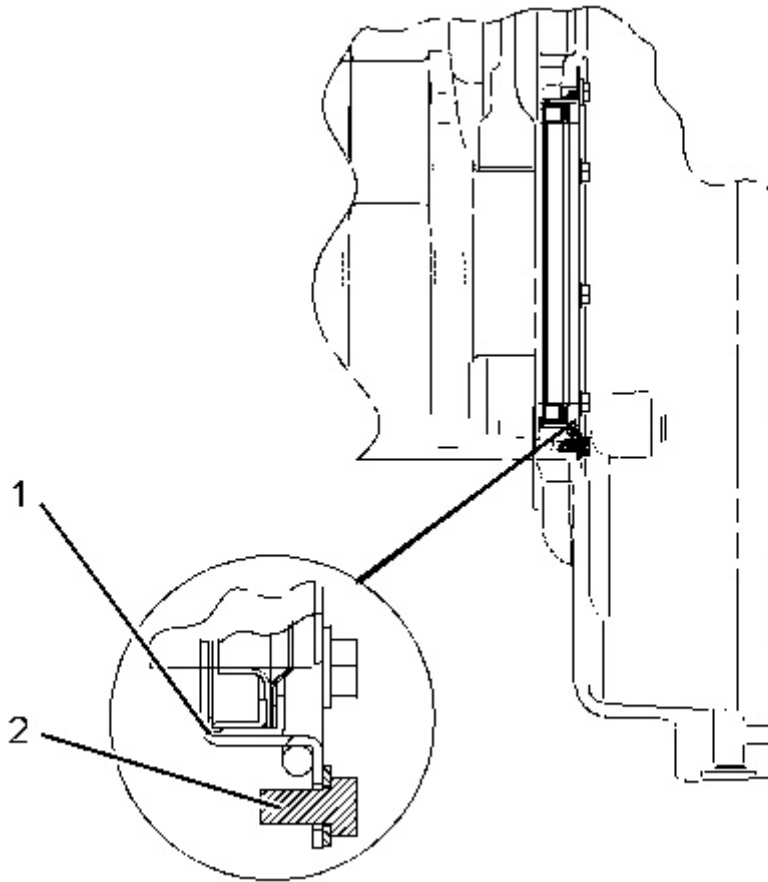


Illustration 1

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1. Remove bolts (2) .
2. Remove crankshaft rear seal (1) from the crankshaft.

Note: Refer to Reuse and Salvage Guidelines, SEBF8039, "Crankshaft Visual Inspection and Magnetic Particle Inspection" for the correct inspection procedure of the crankshaft seal surface.

Note: Refer to Reuse and Salvage Guidelines, SEBF9217, "Specifications for Crankshafts C7, C9, C-9, C10, C11, C12, C-12, C13, C-13, C15, C-15, C18, C-18, C27, C30, and C32 Engines" or the correct specifications of the crankshaft.

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