



# Service Repair Manual

## **Models**

# 289D COMPACT TRACK LOADER

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Product: COMPACT TRACK LOADER

Model: 289D COMPACT TRACK LOADER A9Z

Configuration: 289D Compact Track Loader A9Z00001-UP (MACHINE) POWERED BY C3.3B Engine

## Disassembly and Assembly C2.6 and C3.3B Engines for Caterpillar Built Machines

Media Number -UENR0137-11

Publication Date -01/08/2015

Date Updated -12/07/2018

i05242540

# Crankshaft Rear Seal and Wear Sleeve - Remove - Includes Crankshaft Gear

SMCS - 1161-011; 7558-011

## Removal Procedure

### Start By:

- a. Remove the flywheel.

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### NOTICE

**Keep all parts clean from contaminants.**

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

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1. Place the engine at top dead center.



2. Use a screw driver to remove rear seal (1).



Illustration 2

3. Check the alignment of crankshaft gear (2) and camshaft gear (3). Remove crankshaft gear (2) and ring seal.

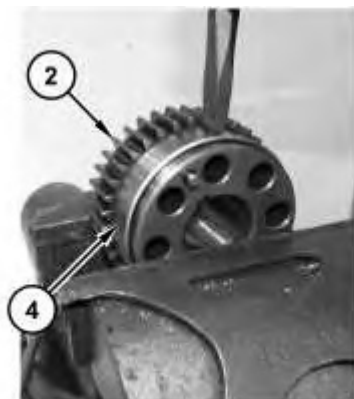


Illustration 3

4. Place crankshaft gear (2) with wear sleeve (4) in a suitable vice. Remove wear sleeve (4) with a suitable chisel.

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# Crankshaft Rear Seal and Wear Sleeve - Install - Includes Crankshaft Gear

SMCS - 1161-012; 7558-012

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	390-1146	Crankshaft Rear Seal and Wear Sleeve Driver <sup>(1)</sup>	1
	423-9665	Crank shaft Rear Seal and Wear Sleeve Driver <sup>(2)</sup>	1

<sup>(1)</sup> Used for the C3.3B

<sup>(2)</sup> Used for the C2.6

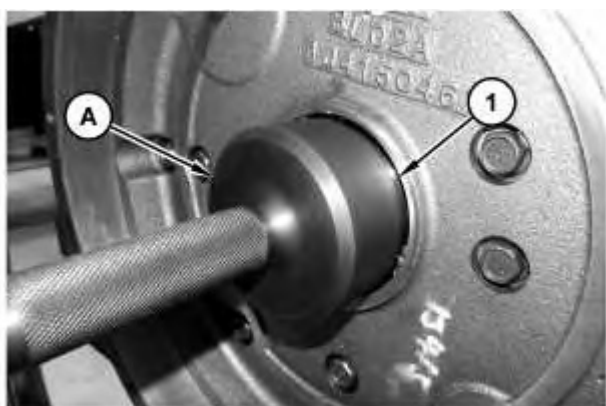
**Note:** Refer to Specification UENR0995 "Engine Design" for non-specified engine Torque Values.



1. Place wear sleeve (4) on crankshaft gear (2). Position Tooling (A). Use a suitable press and install wear sleeve (4).



2. Align crankshaft gear (2) with camshaft gear (3). Install crankshaft gear (2) into the flywheel housing.



3. Apply clean engine oil on the lip of crankshaft rear seal (1). Use Tooling (A) in order to install crankshaft rear seal (1).

**End By:**

- a. Install the flywheel.

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